EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
S1	576	(549/77).CCLS.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2007/05/31 08:37
S2	1057	(514/438).CCLS.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2007/05/31 08:37
S 3	706	(548/131).CCLS.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2007/05/31 08:37
S4	946	(514/364).CCLS.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2007/05/31 08:37

5/31/07 9:03:04 AM Page 1

L6 CAPLUS COPYRIGHT 2007 ACS on STN ANSWER 10 OF 44 ACCESSION NUMBER: 2004:610159 CAPLUS Full-text

DOCUMENT NUMBER: 141:174068

TITLE: Vesicant treatment with

(phenylalkyl)thiophenes as

vitamin D receptor modulators

INVENTOR(S): Nagpal, Sunil

PATENT ASSIGNEE(S): Eli Lilly and Company, USA; Yee,

Ying Kwong

SOURCE: PCT Int. Appl., 496 pp. CODEN: PIXXD2

DOCUMENT TYPE:

Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO. DATE	KIND	DATE	APPLICATION NO.
wo 2004063348 20040107	A2	20040729	wo 2004-us6
WO 2004063348 WO 2004063348		20040930 20051027	
W: AE, AG, AL, BW, BY, BZ, CA, CH,			, BB, BG, BR,
	CU, CZ	, DE, DK, DM	I, DZ, EC, EE,
	HR, HU	, ID, IL, IN	, IS, JP, KE,
	LT, LU	, LV, MA, MD	, MG, MK, MN,
EP 1587905 20040107	A2	20051026	EP 2004-700549

EP 1587905 A3 20051214 AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, R: LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK US 2006135484 A1 20060622 US 2005-540667 20050624 PRIORITY APPLN. INFO.: US 2003-439575P 20030110

W 20040107

OTHER SOURCE(S):

MARPAT 141:174068

WO 2004-US6

The present invention relates to a method of treating or preventing damage to human skin cells by chemical vesicants, such as mustard, by administering non-secosteroidal, title compds. I [wherein R1 and R2 = independently (fluoro)alkyl; or CR1R2 = (un)substituted carbocycle; Q1 and Q2 = C, S, with the proviso that one atom = S and the other atom = C; R3 and R4 = independently H, halo, (fluoro)alkyl, (fluoro)alkoxy, (fluoro)alkylthio, CN, NO2, acetyl, (cyclo)alkenyl, cycloalkyl; L1 and L2 = independently a bond, (CH2)mCX1, (CH2)mCHOH, (CH2)mO, (CH2)mS, (CH2)mSO, (CH2)mSO2, (CH2)mNR5, (CH2)mC(R5)2, (CH2)mC.tplbond.C, (CH2)mCH=CH, CHOHCX1, SO2NH, SO2O, SO2CX1, NHCCX1, NHSO, CH2SO, OSO; m = 0-2; X1 = 0, S;

 $R5 = H_1$ (fluoro)alkyl; Z1 and Z2 = independently H, OH, halo, formyl, NO2, CN, (fluoro)phenyl, benzyl, (un) substituted (cyclo) alkyl, (cyclo) alkenyl, acyl, carboxy, carbamoyl, alkoxy, alkylthio, sulfamoyl, (thio)ureido, amino, etc.; with provisos; and pharmaceutically acceptable salts or prodrugs thereof] with vitamin D receptor (VDR) modulating activity. Examples include prepns. and bioassays for efficacy and toxicity of representative I. For instance. reaction of 3-[4-(benzyloxy)-3- methylphenyl]-3-[4methyl-5-(hydroxymethyl)thiophen-2-yl]pentane with PBr3 and LiHMDS, followed by addition of pinacolone gave the 5-(3-oxo-4,4-dimethylpentyl)-4methylthiophene derivative (82%). Deprotection using Pd/C in EtOH/EtOAc provided the phenol (97%), which was alkylated with methylmercaptomethyl chloride (73%) and oxidized using m-CPBA to afford the 4-(methylsulfonylmethoxy)-3-methylphenyl derivative (33%). Reduction of the ketone using NaBH2 in MeOH yielded the alc. II (quant.). The preferred enantiomer of latter exhibited VDR activity in the RXR-VDR heterodimer assay (EC50 = 40.57 nM) and showed osteoporosis inhibition activity in the osteocalcin (OCN) promoter assay (EC50 = 46.82 nM), while demonstrating low toxicity in the mouse hypercalcemia assay (EC50 $\stackrel{.}{=}$ >1000 nM). In addition, results from the keratinocyte proliferation assay (IC50 = 76 nM) and the IL-10 induction assay (IC50 = 26 nm) indicated that the preferred enantiomer of II may also be useful for the treatment of psoriasis, abscesses, and adhesions.

IT <u>633338-30-4P</u>

RL: PAC (Pharmacological activity); PEP (Physical, engineering or chemical

process); PYP (Physical process); SPN (Synthetic preparation); THU

(Therapeutic use); BIOL (Biological study); PREP (Preparation); PROC

(Process); USES (Uses)

(VDR modulator, chromatog. resolution; preparation of (phenylalkyl)thiophenes

as VDR modulators for preventing or treating damage to human skin cells

by chemical vesicants)

RN 633338-30-4 CAPLUS

CN Glycine, N-[4-[1-ethyl-1-[5-(3-hydroxy-4,4-dimethylpentyl)-4-methyl-2-

thienyl]propyl]-2-methylbenzoyl]-, methyl ester (9CI)

(CA INDEX NAME)

IT <u>633338-31-5P</u> <u>633338-32-6P</u>

RL: PAC (Pharmacological activity); PUR (Purification or recovery); RCT

(Reactant); SPN (Synthetic preparation); THU

(Therapeutic use); BIOL

(Biological study); PREP (Preparation); RACT (Reactant or reagent); USES

(Uses)

(VDR modulator; preparation of

(phenylalkyl)thiophenes as VDR modulators for

preventing or treating damage to human skin cells by chemical vesicants)

RN 633338-31-5 CAPLUS

CN Glycine, N-[4-[1-ethy]-1-[5-(3-hydroxy-4,4-

dimethylpentyl)-4-methyl-2-

thienyljpropyl]-2-methylbenzoyl]-, methyl ester, (+)-(9CI) (CA INDEX NAME)

Rotation (+).

RN 633338-32-6 CAPLUS

CN Glycine, N-[4-[1-ethy]-1-[5-(3-hydroxy-4,4-

dimethylpentyl)-4-methyl-2-

thienyl]propyl]-2-methylbenzoyl]-, methyl ester, (-)-

Rotation (-).

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU

(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES

(Uses)

(VDR modulator; preparation of

(phenylalkyl)thiophenes as VDR modulators for

preventing or treating damage to human skin cells by chemical vesicants)

RN 633338-33-7 CAPLUS

CN Glycine, N-[4-[1-ethyl-1-[5-(3-hydroxy-4,4-

dimethylpentyl)-4-methyl-2-

thienyl]propyl]-2-methylbenzoyl]-, (+)- (9CI) (CAINDEX NAME)

Rotation (+).

RN 633338-34-8 CAPLUS CN Glycine, N-[4-[1-ethy]-1-[5-(3-hydroxy-4,4-dimethylpenty])-4-methyl-2thienyl]propyl]-2-methylbenzoyl]-, (-)- (9CI) (CAINDEX NAME)

Rotation (-).

RN 633349-42-5 CAPLUS
CN Glycine, N-[4-[1-[5-(4,4-dimethyl-3-oxopentyl)-4-methyl-2-thienyl]-1ethylpropyl]-2-methylbenzoyl]- (9CI) (CA INDEX NAME)

RN 633349-43-6 CAPLUS
CN Glycine, N-[4-[1-ethyl-1-[5-(3-hydroxy-4,4-dimethylpentyl)-4-methyl-2-thienyl]propyl]-2-methylbenzoyl]- (9CI) (CA INDEX NAME)

RN 633349-44-7 CAPLUS
CN Glycine, N-[4-[1-ethy]-1-[5-(3-hydroxy-3,4,4-trimethy]penty])-4-methy]-2thieny]propy]-2-methy]benzoy]- (9CI) (CA INDEXNAME)

RN 633349-45-8 CAPLUS
CN Glycine, N-[4-[1-ethyl-1-[4-methyl-5-(2,4,4-trimethyl-3-oxopentyl)-2thienyl]propyl]-2-methylbenzoyl]- (9CI) (CA INDEX NAME)

RN 633349-46-9 CAPLUS CN Glycine, N-[4-[1-ethyl-1-[5-(3-hydroxy-2,4,4-trimethylpentyl)-4-methyl-2-thienyl]propyl]-2-methylbenzoyl]- (9CI) (CA INDEX NAME)

633349-47-0 CAPLUS RN Glycine, N-[4-[1-ethy]-1-[5-(3-hydroxy-2,3,4,4tetramethylpentyl)-4-methyl-2-thienyl]propyl]-2-methylbenzoyl]- (9CI) (CA INDEX NAME)

L6 ANSWER 11 OF 44 CAPLUS COPYRIGHT 2007 ACS on STN **ACCESSION NUMBER:**

DOCUMENT NUMBER:

TITLE:

antagonists: the 2-indole

according to the

AUTHOR(S): Lucia; Valenta,

Tontini, Andrea: Mennuni.

CORPORATE SOURCE: Sciences, University of

SOURCE:

Chemistry (2004), 39(1),

2004:153859 CAPLUS <u>Full</u>-text

140:368090

Anthranilic acid based CCK1

moiety may represent a "needle"

recent homonymous concept Varnavas, Antonio; Lassiani,

Valentina; Berti, Federico;

Laura; Makovec, Francesco Department of Pharmaceutical

Trieste, Trieste, 34127, Italy European Journal of Medicinal

85-97

CODEN: EJMCA5; ISSN: 0223-5234

Elsevier Science Ltd. PUBLISHER:

DOCUMENT TYPE: Journal LANGUAGE: English

CASREACT 140:368090 OTHER SOURCE(S):

Recently we described an innovative class of non-peptide CCK1 antagonists keeping appropriate pharmacophoric groups on the anthranilic acid employed as a mol. scaffold. The lead compound obtained, VL-0395, characterized by the presence of Phe and the 2-indole moiety at the C- and N-termini of anthranilic acid, resp., is endowed with submicromolar affinity towards CCK1 receptors. Thus, we have prepared and tested on CCK receptors a library of VL-0395 analogs in order to investigate the precise topol. and essential key interactions of the 2-indole group of the lead with the CCK1 receptor. The obtained results confirm that this group establishes very specific interactions with this receptor sub-site and may be viewed as a "needle" group.

685141-73-5P

IT

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU

(Therapeutic use); BIOL (Biological study); PREP (Preparation): USES

(Uses)

(synthesis and CCK1 antagonistic activity of VL-0395 analogs)

685141-73-5 CAPLUS RN

Phenylalanine, N-[2-[(2-

thienylcarbonyl)amino]benzoyl]- (9CI) (CA INDEX NAME)

IT 685141-92-8P

RL: RCT (Reactant); SPN (Synthetic preparation): PREP (Preparation); RACT

(Reactant or reagent)

(synthesis and CCK1 antagonistic activity of VL-0395 analogs)

RN 685141-92-8 CAPLUS Phenylalanine, N-[2-[(2-CN thienylcarbonyl)amino]benzoyl]-, ethyl ester (9CI) (CA INDEX NAME)

REFERENCE COUNT: 33 THERE ARE 33 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS

AVAILABLE IN THE RE FORMAT

ANSWER 12 OF 44 CAPLUS COPYRIGHT 2007 ACS on STN **ACCESSION NUMBER:** 2004:143094 CAPLUS Full-text

DOCUMENT NUMBER: 140:199743

TITLE:

(arylamino)-3-

antagonists of

intrinsic pathway of

INVENTOR(S): Robert C.; Guo, factor IX for inhibiting the

blood coagulation

Mjalli, Adnan M. M.; Andrews,

Preparation of substituted (2S)-

(biphenyl-4-yl)propionic acids as

Xiao-chuan; Christen, Daniel

Peter; Gohimmukkula, Devi

Reddy; Huang, Guoxiang; Rothlein.

Robert; Tyagi,

Sameer; Yaramasu, Tripura; Behme,

Christopher

PATENT ASSIGNEE(S):

SOURCE:

Transtech Pharma, Inc., USA

PCT Int. Appl., 326 pp.

CODEN: PIXXD2

Patent

DOCUMENT TYPE:

LANGUAGE:

English FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.

KIND DATE APPLICATION NO.

DATE

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wo 2004014844
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20030808
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KR, KZ, LC, LK, LR,
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MZ, NI, NO, NZ, OM.
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SL, SY, TJ, TM, TN,
             TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA,
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CZ, EE, HU.
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                                 20051130
                                             CN 2003-819267
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     US 2006276518
                          Α1
                                 20061207
                                             us 2006-500225
20060807
PRIORITY APPLN. INFO.:
                                             US 2002-402272P
   20020809
                                             us 2003-637900
A3 20030808
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W 20030808 OTHER SOURCE(S): MARPAT 140:199743 The title compds. Ar2XCH(VAr1)(CH2)cG [I; c = 0-2; G =H, CO2R1, CH2OR1, COR1, CR1:NOR2, an acid isostere (wherein R1, R2 = H, alkyl, aryl, etc.); V =(CH2)b0(CH2)a, (CH2)bNR7(CH2)a, (CH2)b0, (CH2)bNR7, (CH2)a, a bond (a = 0-2; b = 1-2; R7 = H, alkyl, aryl, etc.); X = NR8, COR8, NR8CO, etc. (R8 = H, alkyl), aryl, etc.); Ar1 = (un)substituted aryl, heteroaryl, cycloalkylaryl, etc.; Ar2 = (un)substituted aryl or heteroaryl], useful as antagonists, or more preferably, partial antagonists of factor IX and thus, may be used to inhibit the intrinsic pathway of blood coagulation, were prepared Thus, reacting Me 2-Lamino-3-biphenyl-4-yl-propionate with isoquinoline-3carboxylic acid followed by hydrolysis afforded 81% 3biphenyl-4-yl-(2s)-[(isoquinoline-3carbonyl)amino]propionic acid. The compds. I inhibit factor IX with IC50 of less than 30 μM , and are useful in a variety of applications including the management, treatment and/or control of diseases caused in part by the intrinsic clotting pathway utilizing factor IX. Such diseases or disease states include stroke, myocardial infarction, aneurysm surgery, and deep vein thrombosis associated with surgical procedures, long periods of confinement, and acquired or inherited procoagulant states. The pharmaceutical composition comprising the compound I is claimed. 660827-25-8P 660827-26-9P 660828-47-7P IT RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study): PREP (Preparation); USES (Uses) (preparation of substituted (2S)-(arylamino)-3-(biphenyl-4-yl)propionic acids as antagonists of factor IX for inhibiting intrinsic pathway of blood coagulation) 660827-25-8 CAPLUS RN [1,1'-Biphenyl]-4-propanoic acid, α -[[5-bromo-2-[(2-CN thienylcarbonyl)amino]benzoyl]amino]-2'-phenoxy-. (αS) - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

660827-26-9 **CAPLUS** RN

[1,1'-Biphenyl]-4-propanoic acid, α -[[5-bromo-2-[(2-CN thienylacetyl)amino]benzoyl]amino]-2'-phenoxy-, (αS) -(9CI) (CA INDEX NAME)

Absolute stereochemistry.

660828-47-7 CAPLUS RN

[1,1'-Biphenyl]-4-propanoic acid, α -[[2-[([1,1'-CN

biphenyl]-4-ylsulfonyl)[(3-methyl-2-thienyl)methyl]amino]-5-chlorobenzoyl]amino]-,

 (αS) - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L6 ANSWER 13 OF 44 CAPLUS COPYRIGHT 2007 ACS on STN ACCESSION NUMBER: 2004:20493 CAPLUS <u>Full-text</u>

DOCUMENT NUMBER: 140:94034

TITLE: Preparation of 4-[N-(thiazol-2-

yl)aminomethyl]benzamides as novel

antagonists/inverse agonists
INVENTOR(S):
Lau, Jesper; Christensen, Inge

Thoger; Madsen, Peter;

Bloch, Paw; Behrens, Carsten;

Kodra, Janos Kodra;

Nielsen, Poul Enrico PATENT ASSIGNEE(S): Novo Nordisk A/S, Den. SOURCE: PCT Int. Appl., 210 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. DATE	KIND	DATE	APPLICATION NO.
wo 2004002480 20030527	A1	20040108	WO 2003-DK350
W: AE, AG, AL, BY, BZ, CA, CH, CN,	AM, AT	, AU, AZ, BA	, BB, BG, BR,
	CZ, DE	, DK, DM, DZ	, EC, EE, ES,
	ID, IL	, IN, IS, JP	, KE, KG, KP,

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     AU 2003233780
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20030527
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PRIORITY APPLN. INFO.:
                                             DK 2002-1006
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Ρ
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   20021218
Р
                                             WO 2003-DK350
   20030527
                                             US 2003-448529
A1 20030530
OTHER SOURCE(S):
                         MARPAT 140:94034
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GI

The title compds. [I; A = (CH2)2CO2H, II, tetrazoly]; X = a bond, CR1R2, NR1; Y = CR3, N; R1-R3 = H, alkyl; or R1 and R3 on adjacent atoms may be combined to form a double bond; E = alkyl, alkenyl, cycloalkyl, aryl, etc.; B = 2,4-thiazoyl, etc.; D = (un)substituted (hetero)aryl] that act to antagonize the action of the glucagon peptide hormone on the glucagon receptor, were prepared E.g., a multi-step synthesis of III (starting from Fmoc- β -Ala-Wang resin), was given. Most of the tested compds. I showed IC50 values below 1000 nM when tested in one of the glucagon binding assays.

IT <u>643009-21-6P</u> <u>643009-22-7P</u> <u>643009-23-8P</u>

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU

(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES

(Uses)

(preparation of 4-[N-(thiazo]-2-

yl)aminomethyl]benzamides as novel glucagon antagonists/inverse agonists)

RN 643009-21-6 CAPLUS

CN β -Alanine, N-[4-[[[2-(2-thienyl)ethyl][4-[4-(trifluoromethyl)phenyl]-

2-thiazolyl]amino]methyl]benzoyl]- (9CI) (CA INDEX NAME)

RN 643009-22-7 CAPLUS
CN β-Alanine, N-[4-[[[2-(2-thienyl)ethyl][4-[4-(trifluoromethoxy)phenyl]2-thiazolyl]amino]methyl]benzoyl]- (9CI) (CA INDEX NAME)

RN 643009-23-8 CAPLUS
CN β-Alanine, N-[4-[[[4-(2-fluorophenyl)-2-thiazolyl][2-(2-thienyl)ethyl]amino]methyl]benzoyl]- (9CI) (CA INDEX NAME)

REFERENCE COUNT: AVAILABLE FOR THIS THERE ARE 2 CITED REFERENCES

RECORD. ALL CITATIONS

AVAILABLE IN THE RE FORMAT

L6 **ANSWER 14 OF 44** CAPLUS COPYRIGHT 2007 ACS on STN

2003:972066 CAPLUS <u>Full-text</u> **ACCESSION NUMBER:**

DOCUMENT NUMBER: 140:27753

TITLE: Preparation of phenylalkyl

2

thiophene-type vitamin D

receptor modulators for treating

bone disease,

psoriasis and other disorders Dahnke, Karl Robert; Gajewski, INVENTOR(S):

Robert Peter; Jones, Charles David; Linebarger, Jared

Harris; Lu.

Jianliang; Ma, Tianwei; Nagpal, Sunil; Simard, Todd

Parker; Yee, Ying Kwong; Bunel, Emilio Enrique;

Stites, Ryan Edward Eli Lilly and Company, USA PATENT ASSIGNEE(S):

PCT Int. Appl., 504 pp. SOURCE:

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE:

English FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. DATE	KIND DATE		APPLICATION NO.	
wo 2003101978	A1	20031211	wo 2003-us14539	

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20060125
PRIORITY APPLN. INFO.:
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P 20020529
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  20030522
OTHER SOURCE(S):
                       MARPAT 140:27753
GI
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$$Z? -L?$$
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 $R?$
 $R?$

I

II

The present invention relates to novel, AB nonsecosteroidal, phenylalkyl thiophene compds. (shown as I; variables defined below; e.g. 3'-[4-(2-0x0-3,3dimethylbutoxy)-3-methylpheny11-3 4 -[5-(methoxycarbonyl)-4- (methyl)thiophen-2-yl]pentane (II)) with vitamin D receptor (VDR) modulating activity that are less hypercalcemic than $1\alpha,25$ dihydroxy vitamin D3. These compds. are useful for treating bone disease and psoriasis. For I: R and R' = C1-C5 alkyl, C1-C5 fluoroalkyl, or together R and R' form a (un)substituted, (un)saturated carbocyclic ring having 3-8 C atoms; ring atoms Q1 and Q2 = C or S, with the proviso that one atom is S and the other atom is C; RP and RT = H, halo, C1-C5 alkyl, C1-C5fluoroalkyl, -0-C1-C5 alkyl, -s-C1-C5 alkyl, -0-C1-C5 fluoroalkyl, -CN, -NO2, acetyl, -S-C1-C5 fluoroalkyl, C2-C5 alkenyl, C3-C5 cycloalkyl, and C3-C5 cycloalkenyl; LP and LT are divalent linking bond, -(CH2)mC(X1)-(X1 = 0, S; m = 0-2), -(CH2)mCH(OH)-,etc.; ZP and ZT = H, Ph, benzyl, fluorophenyl, C1-C5 alkyl, etc.; addnl. details including provisos are given in the claims. Although the methods of preparation are not claimed, .apprx.180 example For example, II was prepared in prepns. are included. 7 steps starting from 2-hydroxy-5-bromotoluene and tert-butyldimethylsilyl chloride and involving intermediates 2-(tert-Butyldimethylsilyloxy)-5bromotoluene, 3'-[4-(tert-Butyldimethylsilyloxy)-3methylphenyl]pentan-3- ol, 3'-[4-(Hydroxy)-3methylphenyl]-3'-[4-(methyl)thiophen-2-yl]pentane, 3'-[4-(Benzyloxy)-3-methylphenyl]-3'-[4-(methyl)thiophen-2-y1]pentane, 3'-[4-(Benzyloxy)-3-methylpheny1]-3'-[5-(methoxycarbonyl)-4- (methyl)thiophen-2-yl]pentane, and 3'-[4-(Hydroxy)-3-methy](methoxycarbonyl)-4-(methyl)thiophen-2-yl]pentane with yields of 97, 72, 95, 92, 54, 100 and 85, resp. Results are tabulated for many of the example I for the following assays: RXR-VDR heterodimerization (SaOS-2 cells), VDR co-transfection (Caco-2 cells), osteocalcin promotor, mouse hypercalcemia. keratinocyte proliferation, and IL-10 induction; e.g. one enantiomer of 1-[4-[1-ethyl-1-(5-hydroxymethyl-4-methylthiophen-2-yl)propyl]-2-methylphenoxy]-3,3dimethylbutan-2-ol exhibits an EC50 = 2.8 nm in the RXR-VDR assay compared to 3 nm for the control calcipotriol.

IT 633338-30-4P

RL: PAC (Pharmacological activity); PEP (Physical, engineering or chemical

process); PYP (Physical process); SPN (Synthetic preparation); THU

(Therapeutic use); BIOL (Biological study); PREP (Preparation); PROC

(Process); USES (Uses)

(drug candidate, chromatog. resolution; preparation of phenylalkyl

thiophene-type vitamin D receptor modulators for treating bone disease,

psoriasis and other disorders)

RN 633338-30-4 CAPLUS

CN Glycine, N-[4-[1-ethy]-1-[5-(3-hydroxy-4,4-dimethylnenty]]

dimethylpentyl)-4-methyl-2-

thienyl]propyl]-2-methylbenzoyl]-, methyl ester (9CI) (CA INDEX NAME)

RL: PAC (Pharmacological activity); PUR (Purification or recovery); RCT

(Reactant); SPN (Synthetic preparation); THU

(Therapeutic use); BIOL

(Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(drug candidate; preparation of phenylalkyl

thiophene-type vitamin D

receptor modulators for treating bone disease, psoriasis and other

disorders)

RN 633338-31-5 CAPLUS

CN Glycine, N-[4-[1-ethyl-1-[5-(3-hydroxy-4,4-dimethylpentyl)-4-methyl-2-

thienyl]propyl]-2-methylbenzoyl]-, methyl ester, (+)(9CI) (CA INDEX
NAME)

Rotation (+).

RN 633338-32-6 CAPLUS
CN Glycine, N-[4-[1-ethy]-1-[5-(3-hydroxy-4,4-dimethy]penty])-4-methy]-2thienyl]propyl]-2-methylbenzoyl]-, methyl ester, (-)(9CI) (CA INDEX
NAME)

Rotation (-).

 $\frac{633338-33-7P}{633349-43-6P} \quad \frac{633338-34-8P}{633349-44-7P} \quad \frac{633349-42-5P}{633349-45-8P}$ IT 633349-46-9P 633349-47-0P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU

(Therapeutic use); BIOL (Biological study); PREP (Preparation): USES

(Uses)

(drug candidate; preparation of phenylalky) thiophene-type vitamin D

receptor modulators for treating bone disease, psoriasis and other

disorders)

633338-33-7 CAPLUS RN

Glycine, N-[4-[1-ethy]-1-[5-(3-hydroxy-4.4-CN dimethylpentyl)-4-methyl-2-

thienyl]propyl]-2-methylbenzoyl]-, (+)- (9CI) (CA INDEX NAME)

Rotation (+).

633338-34-8 CAPLUS RN

Glycine, N-[4-[1-ethy]-1-[5-(3-hydroxy-4,4-CN

dimethylpentyl)-4-methyl-2-thienyl]propyl]-2-methylbenzoyl]-, (-)- (9CI) (CA

INDEX NAME)

Rotation (-).

RN 633349-42-5 CAPLUS
CN Glycine, N-[4-[1-[5-(4,4-dimethyl-3-oxopentyl)-4-methyl-2-thienyl]-1ethylpropyl]-2-methylbenzoyl]- (9CI) (CA INDEX NAME)

RN 633349-43-6 CAPLUS
CN Glycine, N-[4-[1-ethyl-1-[5-(3-hydroxy-4,4-dimethylpentyl)-4-methyl-2thienyl]propyl]-2-methylbenzoyl]- (9CI) (CA INDEX NAME)

RN 633349-44-7 CAPLUS
CN Glycine, N-[4-[1-ethy]-1-[5-(3-hydroxy-3,4,4-trimethy]penty])-4-methy]-2thienyl]propyl]-2-methylbenzoyl]- (9CI) (CA INDEX NAME)

RN 633349-45-8 CAPLUS
CN Glycine, N-[4-[1-ethyl-1-[4-methyl-5-(2,4,4-trimethyl-3-oxopentyl)-2thienyl]propyl]-2-methylbenzoyl]- (9CI) (CA INDEX NAME)

RN 633349-46-9 CAPLUS
CN Glycine, N-[4-[1-ethyl-1-[5-(3-hydroxy-2,4,4-trimethylpentyl)-4-methyl-2thienyl]propyl]-2-methylbenzoyl]- (9CI) (CA INDEX NAME)

RN 633349-47-0 CAPLUS CN Glycine, N-[4-[1-ethy]-1-[5-(3-hydroxy-2,3,4,4tetramethylpentyl)-4-methyl-2-thienyl]propyl]-2-methylbenzoyl]- (9CI) (CA INDEX NAME)

REFERENCE COUNT: AVAILABLE FOR THIS THERE ARE 5 CITED REFERENCES

RECORD. ALL CITATIONS

AVAILABLE IN THE RE FORMAT

L6 ANSWER 15 OF 44 CAPLUS COPYRIGHT 2007 ACS ON STN

ACCESSION NUMBER: 2003:610410 CAPLUS <u>Full-text</u>

5

DOCUMENT NUMBER: 139:179889

TITLE: Methylene amides, particularly [(arylmethyl)amino](oxo)acetic

acids, useful as

modulators, and especially inhibitors, of protein

tyrosine phosphatases (PTPs), and their preparation,

uses, e.g., as antidiabetics, and pharmaceutical

compositions.

INVENTOR(S): Swinnen, Dominique; Bombrun, Agnes; Gonzalez, Jerome;

Gerber, Patrick; Pittet, Pierre-

Andre

PATENT ASSIGNEE(S): Applied Research Systems ARS

Holding N.V., Neth.

Antilles

SOURCE: PCT Int. Appl., 346 pp.

DOCUMENT TYPE: CODEN: PIXXD2 Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO.

wo_2003064376	A1	20030807	WO 2003-EP808
20030127 W: AF AG AL	ΔΜ ΔΤ	. All A7	BA, BB, BG, BR,
BY, BZ, CA, CH, CN,			•
CO, CR, CU, FI, GB, GD, GE, GH,	CZ, DE	, DK, DM,	DZ, EC, EE, ES,
GM, HR, HU,	ID, IL	, IN, IS,	JP, KE, KG, KP,
KR, KZ, LC, LK, LR, LS, LT, LU,	LV, MA	, MD, MG,	MK, MN, MW, MX,
MZ, NO, NZ, OM, PH, PL. PT. RO.	RU. SC	SD. SE	SG, SK, SL, TJ,
TM, TN, TR, TT, TZ,			
UA, UG, US, RW: GH, GM, KE,			ZA, ZM, ZW SL, SZ, TZ, UG,
ZM, ZW, AM, AZ, BY,			BE, BG, CH, CY,
CZ, DE, DK, EE, ES,			
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CA 2472021	A1	20030807	CA 2003-2472021
20030127 EP 1470102	A 1	20041027	EP 2003-734697
20030127	· -		
LU, NL, SE, MC, PT,	DE, DK	, ES, FK,	GB, GR, IT, LI,
IE, SI, LT, CZ, EE, HU, SK	LV, FI	, RO, MK,	CY, AL, TR, BG,
BR 2003007394	A	20041109	BR 2003-7394
20030127 JP 2005516061	т	20050602	JP 2003-564000
20030127 US 2005124656	A1	20050609	us 2003-501344
20030127			
CN 1633410 20030127	Α	20050629	CN 2003-807036
ZA 2004005179 20040629	Α	20050629	ZA 2004-5179
IN 2004DN01884	Α	20070406	IN 2004-DN1884
20040701 NO 2004003520	A	20041005	NO 2004-3520
20040824 PRIORITY APPLN. INFO.:			EP 2002-100078
A 20020129			EL 5005-1000/9

A 20020425

WO 2003-EP808

W 20030127 OTHER SOURCE(S):

MARPAT 139:179889

Title compds. I [wherein R1 = alkyl, alkenyl, alkynyl, AB aryl, heteroaryl, (3-8-membered)-cycloalkyl, heterocycloalkýl, (alkyl)aryl, (alkyl)heteroaryl, (alkenyl)aryl, heteroaryl, (alkynyl)aryl, heteroaryl;
R2, R3 = independently H or alkyl; Cy = aryl, heteroaryl, cycloalkyl, heterocyclyl; with the proviso that four compds. are excluded; their geometrical isomers, optically active forms as enantiomers, diastereomers and racemates, and pharmaceutically acceptable salts and active derivs.] were prepared as inhibitors of protein tyrosine phosphatases (PTPs), in particular PTP1B. Examples include over 400 invention compds., five pharmaceutical formulations, and two biol. assays. For example, II was prepared in 4 steps by amidation of 4-formylbenzoic acid with dodecylamine in THF in the presence of 4-methylmorpholine and iso-Bu chloroformate for 3 h at room temperature, reductive amination with 4-trifluoromethylbenzylamine

in DCE in the presence of NaBH(OAc)3, TEA-acylation with chlorooxoacetic acid Et ester in THF, and basecatalyzed hydrolysis of the ester. II exhibited an IC50 value of 2.224 μM for inhibition of PTP1B, 1.40 μM for GLEPP-1, 2.40 μM for SHP-1, and 2.70 μM for SHP-2 in an in vitro assay. In an in vivo postprandial glycemia model in db/db mice, II, at 20-200 mg/kg orally, decreased blood glucose level by 17% at 20 mg/kg, by 42% at 100 mg/kg, and by 48% at 200 mg/kg, with decreases in serum insulin levels of -2%, 66%, and 89%, resp. Thus, I and their formulations are useful for the treatment and/or prevention of metabolic disorders mediated by insulin resistance or hyperglycemia, comprising diabétes type I and/or II, inadequate glucose tolerance, insulin resistance, hyperlipidemia, hypertriglyceridemia, hypercholesterolemia, obesity, polycystic ovary syndrome (PCOS).

578022-25-0P, Oxo[[4-[[[2-(2-

thienyl)ethyl]amino]carbonyl]benzyl][4-(trifluoromethyl)benzyl]amino]acetic acid

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU

(Therapeutic use); BIOL (Biological study); PREP (Preparation): USES

(Uses)

(drug candidate; preparation of [(arylmethyl)amino](oxo)acetic acids as PTP inhibitors for antidiabetics)

RN

578022-25-0 CAPLUS Acetic acid, oxo[[[4-[[[2-(2-CN

thienyl)ethyl]amino]carbonyl]phenyl]methyl][[4-(trifluoromethyl)phényl]methyl]amino]- (9CI)

INDEX NAME)

REFERENCE COUNT: AVAILABLE FOR THIS 7 THERE ARE 7 CITED REFERENCES RECORD. ALL CITATIONS

AVAILABLE IN THE RE FORMAT

ANSWER 16 OF 44 CAPLUS COPYRIGHT 2007 ACS on STN **ACCESSION NUMBER:** 2003:591190 CAPLUS Full-text DOCUMENT NUMBER: 139:149756 TITLE: Preparation of N-(benzyl)aminoalkylcarboxylates, phosphinates, phosphonates and tetrazoles as EDG receptor agonists INVENTOR(S): Doherty, George A.; Li, Zhen; Hale, Jeffrey J.; Mills, Sander G. PATENT ASSIGNEE(S): Merck & Co., Inc., USA PCT Int. Appl., 152 pp. **SOURCE:** CODEN: PIXXD2 DOCUMENT TYPE: Patent LANGUAGE: English FAMILY ACC. NUM. COUNT: 1 PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE ____ WO 2003062248 20030731 wo 2003-us1059 A2 20030114 wo 2003062248 Α3 20060302 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FÍ, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG CA 2472713 A1 20030731 CA 2003-2472713

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20030114
     JP 2005527494
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                                  20050915
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20030114
     EP 1575964
                           A2
                                  20050921
                                               EP 2003-702110
20030114
            AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI,
LU, NL, SE, MC, PT,
              IÉ, SÍ, LT, LV, FI, RO, MK, CY, AL, TR, BG,
CZ, EE, HU, SK
     US 2005020837 A1
                                  20050127
                                               US 2004-500811
20040707
PRIORITY APPLN. INFO.:
                                               US 2002-349995P
   20020118
                                               WO 2003-US1059
   20030114
W
OTHER SOURCE(S):
                         MARPAT 139:149756
      The present invention encompasses prepn. of compds.,
     A(CR1R2)nNHCHR3Ar\{(R4)0-4\}BC (Ar = Ph, naphthyl, etc.;
      A = CO2H, 1H-tetrazol-5-yl, PO3H2, PO2H2, SO3H,
      PO(R5)OH, R5 = C1-4 alkyl, hydroxyc1-4alkyl, Ph, COC1-
      3alkoxy, CH(OH)Ph, etc.; n = 2-4; R1, R2 =
      independently selected from н, halo, он, со2н, с1-6
      alkyl, Ph, etc.; R3 = H, C1-4 alkyl, etc.; R4 = CO2H,
     C1-4 alkyl, sulfonylalkyl, alkoxy, alkoxycyclopropyl, aryl, aryloxy, etc.; C = C1-8 alkyl, C1-8 alkoxy,
      heterocyclyl, etc.; B = (un)substituted Ph.
      (un) substituted C5-16 alkyl, (un) substituted C5-16
      alkenyl, (un)substituted C5-16 alkynyl, etc.), as well
      as the pharmaceutically acceptable salts and hydrates
     thereof. The compds. are useful for treating immune mediated diseases and conditions, such as bone marrow,
      organ and tissue transplant rejection. Pharmaceutical
      compns. and methods of use are included.
      reaction of 3-aminopropylphosphonic acid with 4-
      (decyloxy)benzaldehyde in presence of Bu4NOH and
      sodium cyanoborohydride in MeOH for 1h at 50° gave
      title compound, N-((4-decyloxy)benzyl)-3-
     aminopropylphosphonic acid.
     <u>569684-81-7P</u> <u>569684-82-8P</u> <u>569684-83-9P</u>
IT
     569684-84-0P 569684-85-1P 569684-86-2P
     569684-87-3P 569684-88-4P
     RL: BSU (Biological study, unclassified); SPN
(Synthetic preparation); THU
     (Therapeutic use); BIOL (Biological study); PREP
(Preparation); USES
     (Uses)
        (preparation of (benzyl)aminoalkylcarboxylates,
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phosphinates, phosphonates

and tetrazoles as EDG receptor agonists)
RN 569684-81-7 CAPLUS
CN Butanoic acid, 4-[[[4-[[4-phenyl-5-(trifluoromethyl)-2thienyl]methoxy]phenyl]methyl]amino]- (9CI) (CA INDEX NAME)

RN 569684-82-8 CAPLUS
CN β-Alanine, N-[[4-[[4-phenyl-5-(trifluoromethyl)-2-thienyl]methoxy]phenyl]methyl]- (9CI) (CA INDEX NAME)

RN 569684-83-9 CAPLUS
CN Propanoic acid, 2-methyl-3-[[[4-[[4-phenyl-5-(trifluoromethyl)-2-thienyl]methoxy]phenyl]methyl]amino]- (9CI) (CA INDEX NAME)

RN 569684-84-0 CAPLUS CN Propanoic acid, 2-hydroxy-3-[[[4-[[4-pheny]-5(trifluoromethyl)-2 thienyl]methoxy]phenyl]methyl]amino]- (9CI) (CA INDEX NAME)

RN 569684-85-1 CAPLUS
CN Hexanoic acid, 3-[[[4-[[4-pheny]-5-(trifluoromethy])-2thienyl]methoxy]phenyl]methyl]amino]- (9CI) (CA INDEX NAME)

RN 569684-86-2 CAPLUS
CN Pentanoic acid, 4-methyl-3-[[[4-[[4-phenyl-5-(trifluoromethyl)-2-thienyl]methoxy]phenyl]methyl]amino]- (9CI) (CA INDEX NAME)

RN 569684-87-3 CAPLUS
CN Butanoic acid, 3-[[[4-[[4-pheny]-5-(trifluoromethy])2thienyl]methoxy]phenyl]methyl]amino]- (9CI) (CA INDEX NAME)

RN 569684-88-4 CAPLUS
CN Pentanoic acid, 5-[[[4-[[4-pheny]-5-(trifluoromethy])-2thienyl]methoxy]phenyl]methyl]amino]- (9CI) (CA INDEX NAME)

L6 **ANSWER 17 OF 44** COPYRIGHT 2007 ACS on STN CAPLUS **ACCESSION NUMBER:** 2003:590932 CAPLUS Full-text 139:149413 DOCUMENT NUMBER: TITLE: Selective S1P1/Edg1 receptor agonists INVENTOR(S): Doherty, George A.; Forrest, Michael J.; Hajdu, Richard; Hale, Jeffrey J.: Li. Zhen; Mandala, Suzanne M.; Mills, Sander G.; Rosen, Hugh; Scolnick, Edward M. Merck & Co., Inc., USA PATENT ASSIGNEE(S): **SOURCE:** PCT Int. Appl., 202 pp. CODEN: PIXXD2

DOCUMENT TYPE:

Patent English

1

LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

DATE WO 2003061567 A2 20030731 WO 2003-US1120 20030114 WO 2003061567 A3 20031224 W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG US 2004058894 A1 20040325 US 2003-339380 20030114 EP 1469863 A2 20041027 EP 2003-731917 CA, EE, HU, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK	PATENT NO.	KIND	DATE	APPLICATION NO.
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20030114				
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BY, BZ, CA, CH, CN,		Α3	20031224	
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GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG		CZ, DE	, DK, DM,	DZ, EC, EE, ES,
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NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG US 2004058894 A1 20040325 US 2003-339380 20030114 EP 1469863 A2 20041027 EP 2003-731917 20030114 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG,	KZ, LC, LK, LR, LS,			•
PT, RÓ, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA,		MA, MD	, MG, MK,	MN, MW, MX, MZ,
UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG US 2004058894 A1 20040325 US 2003-339380 20030109 CA 2472680 A1 20030731 CA 2003-2472680 20030114 EP 1469863 A2 20041027 EP 2003-731917 20030114 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG,	PT, RO, RU,	SC, SD	, SE, SG,	SK, SL, TJ, TM,
RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG US 2004058894 A1 20040325 CA 2472680 A1 20030731 CA 2003-2472680 20030114 EP 1469863 A2 20041027 EP 2003-731917 AR: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG,		VC VN	YII 7A	7M 7\a/
KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG US 2004058894 A1 20040325 CA 2472680 A1 20030731 CA 2003-2472680 20030114 EP 1469863 A2 20041027 EP 2003-731917 AR: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG,	RW: GH, GM, KE,			
FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG US 2004058894 20030109 CA 2472680 A1 20030731 CA 2003-2472680 20030114 EP 1469863 A2 20041027 A1 EP 2003-731917 20030114 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG,	KG, KZ, MD,	RU, TJ	, TM, AT,	BE, BG, CH, CY,
SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG US 2004058894 A1 20040325 US 2003-339380 20030109 CA 2472680 A1 20030731 CA 2003-2472680 20030114 EP 1469863 A2 20041027 EP 2003-731917 20030114 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG,		GR, HU	, IE, IT,	LU, MC, NL, PT,
NE, SN, TD, TG US 2004058894 20030109 CA 2472680 EP 1469863 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG,	SE, SI, SK, TR, BF,			•
20030109 CA 2472680 A1 20030731 CA 2003-2472680 20030114 EP 1469863 A2 20041027 EP 2003-731917 20030114 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG,	NE, SN, TD, TG			
20030114 EP 1469863 A2 20041027 EP 2003-731917 20030114 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG,		AI	20040323	US 2003-339380
EP 1469863 A2 20041027 EP 2003-731917 20030114 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG,		A1	20030731	CA 2003-2472680
20030114 R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG,		A2	20041027	EP 2003-731917
LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG,				
IE, SÍ, LT, LV, FI, RO, MK, CY, AL, TR, BG,		DE, DK	, ES, FR,	GB, GR, IT, LI,
	IÉ, SÍ, LT,	LV, FI	, RO, MK,	CY, AL, TR, BG,
US 2005070506 A1 20050331 US 2004-501176	us 2005070506	A1	20050331	us 2004-501176
20040712				
PRIORITY APPLN. INFO.: US 2002-349991P 20020118				US 2002-349991P
P 20020307	P 20020307			US 2002-362566P
US 2002-382933P	. 20020307			US 2002-382933P

W 20030114

The present invention encompasses a method of treating AB an immunoregulatory abnormality in a mammalian patient in need of such treatment comprising administering to said patient a compound which is an agonist of the S1P1/Edg1 receptor in an amount effective for treating said immunoregulatory abnormality, wherein said compound possesses a selectivity for the S1P1/Edg1 receptor over the S1PR3/Edg3 receptor, said compound administered in an amount effective for treating said immunoregulatory abnormality. Thus, 4-нос6н4сно was treated with Me(CH2)7I to give 4-Me(CH2)70C6H4CH0 which was treated with H2N(CH2)3P(O)(OH)2 to give 4-Me(CH2)70C6H4CH2NH(CH2)3P(0)(OH)2 which had an EC50 for S1P1 agonism of 1.5 nM and for S1P3 agonism of 6.0 nM.

 569684-81-7P
 569684-82-8P
 569684-83-9P

 569684-84-0P
 569684-85-1P
 569684-86-2P

 569684-87-3P
 569684-88-4P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU

(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of amino functionalized organo phosphonates or organo

carboxylates as S1P1/Edg1 receptor agonists)

RN 569684-81-7 CAPLUS

CN Butanoic acid, 4-[[[4-[[4-pheny]-5-(trif]uoromethy])-2-

thienyl]methoxy]phenyl]methyl]amino]- (9CI) (CA INDEX NAME)

RN 569684-82-8 CAPLUS

CN β -Alanine, N-[[4-[[4-phenyl-5-(trifluoromethyl)-2-thienyl]methoxy]phenyl]methyl]- (9CI) (CA INDEX NAME)

RN 569684-83-9 CAPLUS
CN Propanoic acid, 2-methyl-3-[[[4-[[4-phenyl-5-(trifluoromethyl)-2-thienyl]methoxy]phenyl]methyl]amino]- (9CI) (CA INDEX NAME)

RN 569684-84-0 CAPLUS
CN Propanoic acid, 2-hydroxy-3-[[[4-[[4-pheny]-5(trifluoromethy])-2thienyl]methoxy]phenyl]methyl]amino]- (9CI) (CA INDEX NAME)

RN 569684-85-1 CAPLUS
CN Hexanoic acid, 3-[[[4-[[4-pheny]-5-(trif]uoromethy])2thieny]]methoxy]pheny]]methy]]amino]- (9CI) (CA INDEX NAME)

RN 569684-86-2 CAPLUS
CN Pentanoic acid, 4-methyl-3-[[[4-[[4-phenyl-5-(trifluoromethyl)-2-thienyl]methoxy]phenyl]methyl]amino]- (9CI) (CA INDEX NAME)

RN 569684-87-3 CAPLUS
CN Butanoic acid, 3-[[[4-[[4-pheny]-5-(trifluoromethy])2thienyl]methoxy]phenyl]methyl]amino]- (9CI) (CA INDEX NAME)

RN 569684-88-4 CAPLUS
CN Pentanoic acid, 5-[[[4-[[4-pheny]-5-(trif]uoromethy])-

2thienyl]methoxy]phenyl]methyl]amino]- (9CI) (CA INDEX NAME)

L6 ANSWER 18 OF 44 CAPLUS COPYRIGHT 2007 ACS on STN ACCESSION NUMBER: 2003:454276 CAPLUS Full-text

DOCUMENT NUMBER: 139:36344

TITLE: Preparation of benzoylaminopropanoic acids and related

compounds as glucagon receptor

antagonists for

treating hyperglycemia and other

disorders
INVENTOR(S):
Lau, Jesper;

Kodra, Janos Tibor; Madsen, Peter;

Jorgensen, Anker Steen;

Christensen, Inge Thoger PATENT ASSIGNEE(S):

SOURCE:

Novo Nordisk A/S, Den. PCT Int. Appl., 214 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

LANGUAGE:

Patent English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO. DATE	KIND	DATE	APPLICATION NO.
wo 2003048109	A1	20030612	WO 2002-DK800
20021128			
W: AE, AG,	AL, AM, AT,	AU, AZ,	BA, BB, BG, BR,
BY, BZ, CA, CH, CN,			
CO, CR,	CU, CZ, DE,	DK, DM,	DZ, EC, EE, ES,
FI, GB, GD, GE, GH,			
GM, HR,	HU, ID, IL,	IN, IS,	JP, KE, KG, KP,
KR, KZ, LC, LK, LR,			
LS, LT,	LU, LV, MA,	MD, MG,	MK. MN. MW. MX.

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MZ, NO, NZ, OM, PH,
             PĹ, PŤ, RO, RU, SC, SD, SE, SG, SI, SK, SL,
TJ, TM, TN, TR, TT,
             TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG,
ZM, ZW, AM, AZ, BY,
             KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY,
CZ, DE, DK, EE, ES,
             FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE,
SK, TR, BF, BJ, CF,
             CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN,
TD. TG
     AU 2002365622
                          A1
                                 20030617
                                             AU 2002-365622
20021128
     EP 1463715
                          A1
                                 20041006
                                             EP 2002-804158
20021128
             AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI,
         R:
LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG,
CZ, EE, SK
     JP 2005511683
                          Т
                                 20050428
                                             JP 2003-549302
20021128
     US 2004014789
                          A1
                                 20040122
                                             us 2003-448529
20030530
     US 6881746
                          B2
                                 20050419
     US 2005256175
                          A1
                                 20051117
                                             US 2005-63117
20050222
PRIORITY APPLN. INFO.:
                                             DK 2001-1789
   20011203
                                             DK 2002-1117
Α
   20020718
                                             DK 2002-1006
Α
   20020627
                                             US 2002-394145P
Ρ
   20020703
                                             WO 2002-DK800
W
   20021128
                                             DK 2002-1927
   20021217
Α
                                             US 2002-434255P
Ρ
   20021218
                                             US 2003-448529
A1 20030530
OTHER SOURCE(S):
                         MARPAT 139:36344
     Novel A-NHC(O)X-YC(E)(R1)C(R2)(R3)-Z-D (I; variables
     defined below; e.g. 3-[[4-[2-(bipheny]-4-y])-4-oxo-4-
     (4-trifluoromethoxyphenyl)butyryl]benzoyl
     [amino]propionic acid) that act to antagonize the
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action of the glucagon peptide hormone on the glucagon
     receptor are claimed.
                             More particularly, it relates
     to glucagon antagonists or inverse agonists.
     according to the examples showed IC50 values <1000 nm
     when tested in a glucagon binding assay; no value for
     any I is given. Generally, I show a higher affinity
     for the glucagon receptor compared to the GIP
     receptor. Although the methods of preparation are not
     claimed, >100 example prepns. of I and intermediates
     are included. Compds. I are claimed effective against
     hyperglycemia, IGT, type 2 diabetes, type 1 diabetes,
     dyslipidemia and obesity.
                                 For I: A =
     HO2C(CHR4)m(CH2)n-, 2H-tetrazol-5-yl-(CH2)n-; R1 and
     R2 independently are H, halogen or C1-6-alkyl, or R1
     and R2 are combined to form a double bond: R3 is H.
     C1-6-alkyl or halogen, or R3 and R2 are combined to
     form a double bond to 0; X is arylene or
     heteroarylene, which may optionally be substituted
     with one or two groups R6 and R7 = halogen, -CN, -CF3,
     -OCF3, -OCHF2, -NO2, -OR8, -NR8R9 and C1-6-alky1.
     is -C(0)-, -O-, -NR10-, -S-, -S(0)-, -S(0)2- or -
     CR11R12-; Z is -C(0)(CR13R14)p-, -O(CR13R14)p-,
     S(CR13R14)p-, -S(O)(CR13R14)p-, -S(O)2(CR13R14)p-, -NR15-(CR13R14)p- or -(CR13R14)p-; D is aryl or
     heteroaryl; E is C3-8-cycloalkyl or C4-8-cycloalkenyl,
     aryl, heteroaryl, aryl-C2-6-alkenyl or aryl-C2-6-
     alkynyl; addnl. details are given in the claims.
     540739-08-0P, 3-[[4-[2-(4-Bromothiophen-2-y])-4-(3,4-
     dichlorophenyl)-4-oxobutyryl]benzoyl]aminojpropionic
     540739-09-1P, 3-[[4-[2-(4-Bromothiophen-2-y])-4-(4-
chloro-3-
     methylphenyl)-4-oxobutyryl]benzoyl]amino]propionic
     540739-38-6P, (E)-3-[[4-[4-[3,5-
Bis(trifluoromethyl)phenyl]-2-
     [2,2']bithiopheny1-5-y1-4-oxobut-2-
enoyl]benzoyl]amino]propionic acid
     <u>540739-39-7P</u>, (E)-3-[[4-[2-(4-Bromothiophen-2-y1)-4-
0x0-4-(4-
     trifluoromethoxyphenyl)but-2-
enoyl]benzoyl]amino]propionic acid
     RL: PAC (Pharmacological activity); SPN (Synthetic
preparation); THU
     (Therapeutic use); BIOL (Biological study); PREP
(Preparation); USES
     (Uses)
        (drug candidate; preparation of
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IT.

acid

acid

RN 540739-09-1 CAPLUS
CN β-Alanine, N-[4-[2-(4-bromo-2-thienyl)-4-(4-chloro-3-methylphenyl)1,4-dioxobutyl]benzoyl]- (9CI) (CA INDEX NAME)

RN 540739-38-6 CAPLUS
CN β-Alanine, N-[4-[(2E)-4-[3,5-bis(trifluoromethyl)phenyl]-2-[2,2'-bithiophen]-5-yl-1,4-dioxo-2-butenyl]benzoyl]- (9CI)
(CA INDEX NAME)

Double bond geometry as shown.

Double bond geometry as shown.

REFERENCE COUNT:

2 THERE ARE 2 CITED REFERENCES

RECORD. ALL CITATIONS

AVAILABLE IN THE RE FORMAT

CAPLUS COPYRIGHT 2007 ACS on STN L6 ANSWER 19 OF 44 2002:534073 CAPLUS Full-text ACCESSION NUMBER: DOCUMENT NUMBER: 137:93741

TITLE: Preparation of N-isoxazolyl arylsubstituted thienyl-,

furyl-, and pyrrolylsulfonamides and derivatives as

endothelin activity modulators INVENTOR(S): Wu, Chengde; Raju, Bore Gowda;

Kogan, Timothy; Blok, Natalie

PATENT ASSIGNEE(S): Texas Biotechnology Corporation,

SOURCE: U.S., 59 pp., Cont.-in-part of U. s. 5,962,490.

CODEN: USXXAM

DOCUMENT TYPE: Patent English LANGUAGE:

FAMILY ACC. NUM. COUNT: 10

PATENT INFORMATION:

USA

PATENT NO. DATE	KIND	DATE	APPLICATION NO.
us 6420567 19970926	В1	20020716	US 1997-938325
US 5962490	^	19991005	uc 100C 721102
19960927	Α	19991002	us 1996-721183
AU 9935803	Α	19990916	AU 1999-35803
19990622			7.0 1333 33003
AU 726595	в2	20001116	•
US 2002091272	A1	20020711	us 2001-11610
20011105	ΑI	20020711	02 5001-11010
-	D 2	20021014	
US 6632829	В2	20031014	
US 2003208084	A1	20031106	us 2003-447763
20030528			
PRIORITY APPLN. INFO.:			US 1996-721183
A2 19960927			
			US 1987-100865
A2 19870925			03 1307 100003
			us 1990-416199
A2 19900515			03 1330-410133
AL 13300313			uc 1003 cc303
			us 1993-65202

в2 19930520			•
в2 19930730		US	1993-100125
A2 19930730		US	1993-100565
		US	1993-142159
A2 19931021		US	1993-142552
A2 19931021			1993-142631
B2 19931021			
A2 19940405		US	1994-222287
A2 19940520		US	1994-247072
		US	1995-417075
A2 19950404		us	1995-477223
A2 19950606			_
A 19960404		AU	1996-55367
A2 19960404		WO	1996-us4759
A3 19970926		US	1997-938325
		US	2001-11610
A3 20011105 OTHER SOURCE(S): GI	MARPAT 137:93741		

- * STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY AVAILABLE VIA OFFLINE PRINT *
- AB Thienyl-, furyl-, and pyrrolylsulfonamides, formulations of pharmaceutically acceptable salts thereof, and methods for modulating or altering the activity of the endothelin family of peptides are provided. In particular, disclosures include N-(isoxazolyl)thienylsulfonamides, N-(isoxazolyl)furylsulfonamides, and N-(isoxazolyl)pyrrolylsulfonamides, and methods using these sulfonamides for inhibiting the binding of an endothelin peptide to an endothelin receptor. The compds. are described by the formula Ar2SO2NHAr1 [I; wherein Ar1 = (un)substituted monocyclic or polycyclic

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heteroaryl, particularly isoxazolyl; Ar2 = G1 or G2; M
     = (CH2)mCO(CH2)n, (CH2)mCONH(CH2)n, (CH2)mCH:CH(CH2)n,
     (CH2)mCO(CH2)pNH(CH2)n, C:N(OH)(CH2)n,
     (CH2)mCO(CH:CH)pNH(CH2)n,CH(OH)(CH2)n,
     CH(CH)CO(CH2)n, CH(CH3)CO(CH2)mCH:CH(CH2)n, (CH2)n,
     (CH2)nO, CH2SOÓ-2, or CO2; m, n, and p = independently
     0-6; R1-R5 = independently H, OH, NO2, CN, halo,
     alkyl, alkenyl, alkynyl, (hetero)aryl, arylalkyl, alkylamino, alkylthio, haloalkyl, alkoxy,
     alkylsulfonyl, (un)substituted amino, carbamoyl, etc.;
     or 2 adjacent R1-R5 form alkylenedioxy,
     alkylenethioxyoxy, or alkylenedithioxy; with provisos;
     X = S, O, or NR11; R11 = H, (cyclo)alkyl, alkenyl,
     alkynýl, (alkyl)aryl, heterocyclyl, arálkyl, arálkoxy,
     alkýlálkenyl, alkylalkynyl, OH, CN, acyl, acyloxy,
     carboxy, SH, NHOH, (un) substituted amino, carbamoy1,
     etc.]. Methods for treating endothelin-mediated
     disorders by administering effective amts. of I or
     their prodrugs are also provided. Such disorders
     include hypertension, cardiovascular disease, asthma,
     hypertension, inflammatory disease, glaucoma, etc.
     Twenty synthetic examples are given, and numerous
     example compds. were prepared, tested, and/or claimed.
     For instance, 3-cyanomethyl-2,4,6-trimethylaniline was
     treated with H2SO4 in MeOH to give Me 3-amino-2,4,6-
     trimethylphenylacetate (88%). Amidation with N-(4-
     chloro-3-methyl-5-isoxazolyl)-3-sulfamoylthiophene-2-
     carboxylic acid using 1,1'-carbonyldiimidazole in DMF
     afforded II (15%). The similarly prepared title
     compound III exhibited IC50 values of 0.0015 ± 0.0014
     \mu M for ETA receptors and 0.324 \pm 0.78 \mu M for ETB
     receptors. Claimed compds. also exhibited improved
     oral half-life, bioavailability, and/or in vivo
     activity over those disclosed previously.
     205516-75-2P, N-[3-[3-(4-Chloro-3-methyl-5-
isoxazolylsulfamoyl)-2-
     thienylcarboxamido]-2,4,6-trimethylbenzoyl]glutamic
     205516-76-3P, N-[3-[3-(4-Chloro-3-methyl-5-
```

isoxazolylsulfamoyl)-2-

acid

thienylcarboxamido]-2,4,6-trimethylbenzoyl]aspartic acid

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU

(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(endothelin modulator; preparation of N-isoxazolyl

aryl-substituted
thienyl-, furyl-, and pyrrolylsulfonamides and derivs. as endothelin
activity modulators)

RN 205516-75-2 CAPLUS

CN L-Glutamic acid, N-[3-[[[3-[[(4-chloro-3-methyl-5-isoxazolyl)amino]sulfonyl]-2-thienyl]carbonyl]amino]-2,4,6-

trimethylbenzoyl] - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 205516-76-3 CAPLUS
CN L-Aspartic acid, N-[3-[[[3-[[(4-chloro-3-methyl-5-isoxazolyl)amino]sulfonyl]-2-thienyl]carbonyl]amino]-2,4,6trimethylbenzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

REFERENCE COUNT: 211 THERE ARE 211 CITED

REFERENCES AVAILABLE FOR

THIS RECORD. ALL CITATIONS

AVAILABLE IN THE RE

FORMAT

L6 ANSWER 20 OF 44 CAPLUS COPYRIGHT 2007 ACS ON STN

ACCESSION NUMBER: 2002:502825 CAPLUS <u>Full-text</u>

DOCUMENT NUMBER: 137:63237

TITLE: Preparation of oxazolyl- and

thiazolylalkoxybenzylglycines and

related compounds as

antidiabetic and antiobesity

agents

INVENTOR(S): Cheng, Peter T.; Devasthale,

Pratik; Jeon, Yoon; Chen,

Sean; Zhang, Hao

PATENT ASSIGNEE(S): Bristol-Myers Squibb Company, USA SOURCE: U.S., 190 pp., Cont.-in-part of

U.S. Ser. No. 664,598.

CODEN: USXXAM

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.
DATE			
	_ •	22222	
US 6414002	в1	20020702	us 2001-812960
20010320			
EP 1589006	A1	20051026	EP 2005-10760
20000919			
R: AT, BE, CH,	DE, DK	, ES, FR, GB	, GR, IT, LI,
LU, NL, SE, MC, PT,			
IE, FI, CY	_		
US 2003069275	A1	20030410	us 2002-80965
20020222			
US 6919358	B2	20050719	
us 2003087935	A1	20030508	us 2002-81075
20020222			
US 6727271	в2	20040427	
US 2003096846	A1	20030522	us 2002-80981
20020222			
US 6653314	в2	20031125	

US 2004171644 20030905	A1	20040902	US	2003-655876
US 7084162 US 2004147560 20031216	B2 A1	20060801 20040729	US	2003-737210
US 7053106 US 2005119311 20041013	B2 A1	20060530 20050602	US	2004-964395
US 2007015797 20050822	A1	20070118	US	2005-155965
PRIORITY APPLN. INFO.: P 19990922			US	1999-155400P
A2 20000918			US	2000-664598
A3 20000919			EP	2000-965172
A3 20010320			US	2001-812960
A3 20020222			US	2002-80965
A3 20020222			US	2002-80981
A3 20020222			US	2002-81075
			US	2003-655876
A3 20030905 OTHER SOURCE(S): GI	MARPAT	137:63237		

$$R^{2?}$$
 $R^{2?}$
 $R^{2?}$
 R^{2}
 R

AB Title compds. I [wherein Q = C, N; A = O, S; B = (CH2)x; Z = O, bond; X = CH, N; R1 = H, alkyl; R2 = H,

alkyl, alkoxy, halo, amino; R3 = H, alkyl, aralkyl, aryloxycarbonyl, alkoxycarbonyl, arylcarbonyl, alkylcarbonyl, aryl, heteroaryl, hydroxyalkyl, aryloxyarylalkyl, etc.; R2a, R2b, R2c = H, alkyl, alkoxy, halo, amino; Y = CO2R4, 1-tetrazolyl, PO(OR4a)R5; R4 = H, alkyl, prodrug or ester; R4a = H, prodrug ester; R5 = alkyl, aryl; x = 1-4; m, n = 1, 2] were prepared as modulators of blood glucose levels, triglyceride levels, insulin levels, and nonestérified fatty acid levels (no data). For example, 4-hydroxybenzaldehyde, 5-methyl-2-phenyloxazole-4ethanol, Ph3P, and DEAD were stirred in THF at 0°-room temperature to give 4-(5-methyl-2-phenyloxazole-4ethyl)benzaldehyde (65%). Addition of N-benzylglycine Et ester and NaBH(OAc)3 in 1,2-dichloroethane afforded the benzylamine derivative (55%), which was stirred with aqueous NaOH in MeOH for 14 h to give the title compound II (71%). I are useful for the treatment of diabetes, especially Type II diabetes, as well as hyperglycemia, hyperinsulinemia, hyperlipidemia, obesity, atherosclerosis, and related diseases (no data).

331740-62-6P, Glycine, N-[[4-[2-(5-methyl-2-phenyl-4-IT oxazolyl)ethoxy]phenyl]methyl]-N-[[4-(3-

thienyloxy)phenyllmethyll-

ŔL: PÁC (Pharmacological activity); SPN (Synthetic

preparation); THU

(Therapeutic use); BIOL (Biological study); PREP (Preparation); USES

(Uses)

(preparation of oxazolyl- and thiazolylalkoxybenzylglycines and related

compds. as antidiabetic and antiobesity agents)

RN 331740-62-6 CAPLUS

Glycine, N-[[4-[2-(5-methy]-2-pheny]-4-

oxazolyl)ethoxy]phenyl]methyl]-N-

[[4-(3-thienyloxy)phenyl]methyl]- (9CI) (CA INDEX NAME)

REFERENCE COUNT: 24 THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS

AVAILABLE IN THE RE FORMAT

L6 ANSWER 21 OF 44 CAPLUS COPYRIGHT 2007 ACS ON STN

ACCESSION NUMBER: 2001:792340 CAPLUS <u>Full-text</u>

DOCUMENT NUMBER: 135:331672

TITLE: Preparation of methionine

derivatives as inhibitors of

protein isoprenyl transferases
INVENTOR(S): Sebti, Said M.; Hamilton, Andrew

D.; Augeri, David J.;

Barr, Kenneth J.; Fakhoury, Stephen A.; Janowick.

David A.; Kalvin, Douglas M.;

O'connor, Stephen J.;
Rosenberg, Saul H.; Shen, Wang;

Swenson, Rolf E.;
Sorenson, Bryan K.; Sullivan.

Gerard M.; Tasker.

Andrew S.; Wasicak, James T.; Nelson, Lissa T. J.;

Henry, Kenneth J.; Wang, Le
PATENT ASSIGNEE(S): University of Pittsburgh, USA
SOURCE: U.S. 514 nn Cont -in-part of

SOURCE: U.S., 514 pp., Cont.-in-part of U.S. Ser. No. 852,858.

abandoned.

DOCUMENT TYPE: CODEN: USXXAM Patent

DOCUMENT TYPE: Patent English

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. DATE	KIND	DATE	APPLICATION NO.
US 6310095 19980507	В1	20011030	US 1998-73794
ZA 9906763 19991027	Α	20000515	ZA 1999-6763
PRIORITY APPLN. INFO.: P 19951106			US 1995-7247P
в2 19961105			us 1996-740909
22 2002200			us 1997-852858

19980507

US 1998-73794

us 1998-197279

19981120 Α

OTHER SOURCE(S): MARPAT 135:331672

Compds. R3-Z-L1-aryl [aryl is a benzene ring having AB certain substituents R1, R2, R4; L1 is L4NR5L5 where L4 and L5 are absent or alkylene, R5 is H, alkanoyl, alkoxy, alkoxyalkyl, haloalkyl, etc.; z is a covalent bond; R3 = cycloalkyl, alkoxy, alkyl, halogen, oxo, etc.] or their pharmaceutically acceptable salts, were prepared as inhibitors of protein isoprenyl transferases. Thus, N-[4-[(R)-thiazolidin-4ylcarbonylamino]-2- phenylbenzoyl]methionine Me ester hydrochloride, prepared via amidation reaction, showed 92% inhibition of farnesyl transferase at 1x10-6 M.

IT

<u>216229-74-2P</u> <u>216229-83-3P</u> <u>216232-14-3P</u> RL: BAC (Biological activity or effector, except

adverse); BSU (Biological

study, unclassified); SPN (Synthetic preparation): THU (Therapeutic use):

BIOL (Biological study); PREP (Preparation); USES

(Uses)

(preparation of methionine derivs, as inhibitors of protein isoprenyl

transferases)

RN 216229-74-2 CAPLUS

Butanoic acid, 4-(methylsulfonyl)-2-[[[5-[[(2-CN thienylmethyl)amino]methyl][1,1'-biphenyl]-2yl]carbonyl]amino]-, (2s)-

(9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 216229-83-3 CAPLUS

Butanoic acid, 4-(methylsulfonyl)-2-[[[5-[[[2-(2-CN thienyl)ethyl]amino]methyl][1,1'-biphenyl]-2yl]carbonyllaminol-, (25)-

(9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 216232-14-3 CAPLUS

CN 3-Thiophenecarboxylic acid, 4-[[[6-[[[(1s)-1-carboxy-3-

(methylthio)propyl]amino]carbonyl]-2'-methyl[1,1'biphenyl]-3-

yl]methyl]amino]-, 3-methyl ester (9CI) (CA INDEX

Absolute stereochemistry.

REFERENCE COUNT: 48
REFERENCES AVAILABLE FOR THIS

THERE ARE 48 CITED

RECORD. ALL CITATIONS

AVAILABLE IN THE RE FORMAT

L6 ANSWER 22 OF 44 ACCESSION NUMBER:

CAPLUS COPYRIGHT 2007 ACS on STN 2001:507533 CAPLUS <u>Full-text</u>

DOCUMENT NUMBER:

135:102580

TITLE:

Pharmaceutical and veterinary uses

of endothelin

antagonists for treatment of

laminitis and other

conditions, and preparation

thereof

INVENTOR(S):

PATENT ASSIGNEE(S):

USA

SOURCE:

Brock, Thomas A.; Ward, Patrick R. Texas Biotechnology Corporation,

PCT Int. Appl., 363 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

LANGUAGE:

Patent English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.
DATE			
		20040-40	
WO 2001049289	AI	20010712	wo 2000-us35280
20001227		,	
W: AE, AG, AM	1, AT,	AU, AZ, BA,	BB, BG, BR, BY,
BZ, CA, CH, CN, CR,	. 514		
CU, CZ, DE	:, DK,	DM, DZ, EE,	ES, FI, GB, GD,
GE, GH, GM, HR, HU,			
ID, IL, IN	1, 15,	JP, KE, KG,	KP, KR, KZ, LC,
LK, LR, LS, LT, LU,		141/ 1411 1m/	
LV, MA, MD), MG,	MK, MN, MW,	MX, MZ, NO, NZ,
PL, PT, RO, RU, SD,	. CV	CL TI TH	···
3E, 3G, 31	., SK,	SL, IJ, IM,	TR, TT, TZ, UA,
UG, US, UZ, VN, YU,		DV VC V7	MD DU
ZA, ZW, AN	1, AZ,	BY, KG, KZ,	MD, RU, TJ, TM
RWI GH, GM, KE	:, LS,	MW, MZ, SD,	SL, SZ, TZ, UG,
ZW, AT, BE, CH, CY,		ED CD CD	TE
	, FI,	FR, GB, GR,	IE, IT, LU, MC,
NL, PT, SE, TR, BF,	· ст	CM CA CN	6 14
SN TD TC	, CI,	CM, GA, GN,	GW, ML, MR, NE,
SN, TD, TG	A C	20010716	2001 24567
AU 2001024567 20001227	AS	20010/10	AU 2001-24567
			1000 174125-
PRIORITY APPLN. INFO.: P 19991231			US 1999-174125P
L TARATCOT			200025222
w 20001227			wo 2000-us35280
w / \/\/\/ / /			

w 20001227

OTHER SOURCE(S): MARPAT 135:102580

AB Pharmaceutical and veterinary uses of endothelin antagonists are provided. In particular, methods of treatment of laminitis, such as equine and bovine laminitis, by administration of one or more endothelin antagonists are provided. Methods are also provided for the treatment, prevention, or amelioration of one or more symptoms of menopause; osteoporosis and

metabolic bone disorders; climacteric disorders, including hot flushes or flashes, abnormal clotting patterns, urogenital discomfort and increased incidence of cardiovascular disease, and other disorders associated with the reduction in ovarian function in women; pre-eclampsia; and control and management of labor during pregnancy by administration of endothelin antagonists.

IT <u>350225-46-6</u> 350225-47-7

RL: BAC (Biological activity or effector, except adverse); BSU (Biological

study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES

(Uses)

(reaction; endothelin antagonists for veterinary or pharmaceutical use

in treatment of laminitis and other conditions)

RN 350225-46-6 CAPLUS

CN L-Glutamic acid, N-[3-[[[3-[[(4-chloro-3-methyl-5-isoxazolyl)amino]sulfonyl]-2-thienyl]carbonyl]amino]-2,4,6-

trimethylbenzoyl]-, sodium salt (9CI) (CA INDEX NAME)
Absolute stereochemistry.

●x Na

RN 350225-47-7 CAPLUS
CN L-Aspartic acid, N-[3-[[[3-[[(4-chloro-3-methyl-5-isoxazolyl)amino]sulfonyl]-2-thienyl]carbonyl]amino]-2,4,6-

trimethylbenzoyl]-, sodium salt (9CI) (CA INDEX NAME) Absolute stereochemistry.

Na

7

REFERENCE COUNT: AVAILABLE FOR THIS THERE ARE 7 CITED REFERENCES

RECORD. ALL CITATIONS

AVAILABLE IN THE RE FORMAT

L6 ANSWER 23 OF 44

ACCESSION NUMBER:

DOCUMENT NUMBER:

TITLE:

amidine derivatives

oxide synthase INVENTOR(S):

Macdonald, James;

Phillips, Eifion:

PATENT ASSIGNEE(S):

SOURCE:

DOCUMENT TYPE:

LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

CAPLUS COPYRIGHT 2007 ACS on STN 2001:472696 CAPLUS <u>Full-text</u>

135:76783

Preparation of furan and thiophene

useful as inhibitors of nitric

Chen, Deborah; Émpfield, James;

Mattes, Kenneth; Murray, Robert;

Schmitthenner, Hans

Astrazeneca AB, Swed.

PCT Int. Appl., 80 pp.

CODEN: PIXXD2

Patent

English

PATENT NO. DATE	KIND	DATE	APPLICATION NO.
wo 2001046171	A1	20010628	WO 2000-SE2540
20001214	A14 AT	A11 A7	D4 DD D0 DD
BY, BZ, CA, CH, CN,	AM, AI	, AU, A∠,	BA, BB, BG, BR,
CR, CU, CZ, GD, GE, GH, GM, HR,	DE, DK	, DM, DZ,	EE, ES, FI, GB,
HÚ, IĎ, IL,	IN, IS	, JP, KE,	KG, KP, KR, KZ,
LC, LK, LR, LS, LT, LU. LV. MA.	MD. MG.	. MK. MN.	MW, MX, MZ, NO,
NZ, PL, PT, RO, RU,		•	•
UA, UG, US, UZ, VN,	SI, SK,	, SL, 13,	TM, TR, TT, TZ,
YU, ZA, ZW,	AM, AZ	, BY, KG,	KZ, MD, RU, TJ, TM
RW: GH, GM, KE,	LS, MW,	, MZ, SD,	SL, SZ, TZ, UG,
ZW, AT, BE, CH, CY,	ET ER	GR GP	IE, IT, LU, MC,
NL, PT, SE, TR, BF,			
BJ, CF, CG, SN, TD, TG	CI, CM,	GA, GN,	GW, ML, MR, NE,
us 2002137750	A1	20020926	us 2001-763838
20010227			
PRIORITY APPLN. INFO.: A 19991220			SE 1999-4677
			WO 1999-SE2540
W 20001214 OTHER SOURCE(S): 135:76783 GI	CASREAC	T 135:767	'83; MARPAT

HN
$$X-Y-R^2$$
 I R^1 $X-Y-R^2$ I R^1 $X-Y-R^2$ I $X-Y-R^2$ I $X-Y-R^2$ $X-Y-R^2$ $X-Y-R^2$ $Y-Y-R^2$ $Y-Y-Y-R^2$ $Y-Y-Y-R^2$ $Y-Y-R^2$ $Y-Y-Y-R^2$ $Y-Y-Y-R^2$ $Y-Y-Y-R^2$ $Y-Y-Y-R^2$ $Y-Y-R^2$ Y

There are provided novel compds. (shown as I; e.g. N-AB [3-[[(2R)-2- (hydroxymethyl)pyrrolidinyl]methyl]-4methoxyphenyl]thiophene-2- carboximidamide) and optical isomers, racemates and tautomers thereof and pharmaceutically acceptable salts thereof, together with processes for their preparation, compns. containing them and their use in therapy. The compds. are inhibitors (no data) of the enzyme nitric oxide synthase, especially the neuronal isoform of nitric oxide synthase. In I, Z = furan or thiophene ring, optionally substituted by ≥1 halogen, trifluoromethyl, C1-6 alkyl, C1-6 alkoxy, hydroxy, amino, S(O)qR4, CO2R5 and CONR6R7; X = C1-6 alkyl; Y = 0, S(0)n or NR3; n and q independently = 0-2; R1 = H, halogen, C1-6 alkyl, hydroxy, C1-6 alkoxy, C1-6 alkoxy-0-R8, C1-6 alkoxy-NR9R10 or O-phenyl; said Ph being optionally substituted by ≥1 halogen, trifluoromethyl, C1-6 alkyl, C1-6 alkoxy, hydroxy and amino; R2 represents C1-6 alkyl-0-R11 or C1-6 alkyl-NR12R13; R3 = H, C1-6alkyl, C2-7 alkanoyl, C1-6 alkyl-0-R, C1-6 alkyl-NR15R16 or CH2-phenyl; said Ph being optionally substituted by ≥1 halogen, trifluoromethyl, C1-6 alkyl, C1-6 alkoxy, hydroxy and amino; or the group NR2R3 represents azetidinyl, pyrrolidinyl, piperidinyl, morpholinyl, or piperazinyl optionally 4substituted by C1-6 alkyl; each of said azacyclic rings being substituted by O-R17, NR18R19, C1-6 alkyl-O-RÍ7 or CĬ-6 alkyl-NR18RÍ9 or, when Y = NR3, the groups X and R3 are joined together such that the group X-N-R3 represents a saturated 4 to 7 membered azacyclic ring; R4-R19 independently = H or C1-6alkyl; or the groups NR9R10, NR12R13, NR15R16 and NR18R19 independently = azetidinyl, pyrrolidinyl, piperidinyl, morpholinyl; or piperazinyl optionally 4substituted by C1-6 alkyl. The claimed compds. are claimed to be useful for treating, or reducing the risk of hypoxia, stroke, Parkinson's disease, ischemia, neurodegenerative conditions, schizophrenia, anxiety, pain or migraine. Claimed methods of preparing I comprise (a) reacting II or a salt thereof with HN:CZL or a salt thereof (L = a leaving group); or (b) reacting III or a salt thereof (L1 = leaving)group) with HYR2 or a salt thereof; or (c) preparing I (X = CH2) by reduction of a corresponding compound wherein X = C(0). 43 Example preprise are given, but

346732-52-3P RL: RCT (Reactant); SPN (Synthetic preparation); PREP

all are for thiophene derivs.

IT

(Preparation); RACT

(Reactant or reagent)

(intermediate; preparation of furan and thiophene amidine derivs. useful as

inhibitors of nitric oxide synthase)

346732-52-3 CAPLUS RN

Glycine, N-cyclopropyl-N-[[5-[(imino-2-CN

thienvlmethyl)aminol-2-

methoxyphenyl]methyl]-, methyl ester (9CI) (CA INDEX NAME)

REFERENCE COUNT:

AVAILABLE FOR THIS

6 THERE ARE 6 CITED REFERENCES

RECORD. ALL CITATIONS

AVAILABLE IN THE RE FORMAT

ANSWER 24 OF 44 CAPLUS COPYRIGHT 2007 ACS on STN L6 2001:228872 CAPLUS <u>Full-text</u> ACCESSION NUMBER:

134:266299 DOCUMENT NUMBER:

Preparation of oxazoly]- and TITLE:

thiazolylalkoxybenzylglycines and

related compounds as

antidiabetic and antiobesity

agents.

SOURCE:

INVENTOR(S):

Cheng, Peter T. W.; Devasthale,

Pratik; Jeon, Yoon T.;

PATENT ASSIGNEE(S):

Chen, Sean; Zhang, Hao

Bristol-Myers Squibb Company, USA PCT Int. Appl., 362 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

LANGUAGE:

Patent English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.

KIND

DATE APPLICATION NO.

DATE

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WO 2001021602 A1
                                20010329 wo 2000-us25710
20000919
            AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR,
BY, CA, CH, CN, CR,
             CÚ, CŹ, DE, DK, DM, DZ, EE, ES, FI, GB, GD,
GE, GH, GM, HR, HU,
             ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC,
LK, LR, LS, LT, LU,
             LV, MA, MD, MG, MK, MN, MW, MX, NO, NZ, PL,
PT, RO, RU, SD, SE,
             SG, SÍ, SK, SL, TJ, TM, TR, TT, TZ, UA, UG,
US, UZ, VN, YU, ZA, ZW
         RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG,
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NL, PT, SE, BF, BJ,
             CF, CG, CI, CM, GA, GN, GW, ML, MR, NE, SN,
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                                            TW 2000-
89119155
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     CA 2388452
                          Α1
                                20010329
                                            CA 2000-2388452
20000919
     CA 2388452
                          C
                                20070403
     EP 1218361
                         Α1
                                20020703
                                            EP 2000-965172
20000919
        R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI,
LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO, MK, CY, AL
     BR 2000014189
                                20020820
                          Α
                                            BR 2000-14189
20000919
     TR 200200732
                          T2
                                20021021
                                            TR 2002-732
20000919
     JP 2003509503
                          T
                                20030311
                                            JP 2001-524981
20000919
     HU 200204416
                          A2
                                20030428
                                            HU 2002-4416
20000919
     NZ 516820
                          Α
                                20041126
                                            NZ 2000-516820
20000919
     AU 782031
                          B2
                                20050630
                                            AU 2000-75935
20000919
     EP 1589006
                         A1
                                20051026
                                            EP 2005-10760
20000919
        R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI,
LU, NL, SE, MC, PT,
             IE, FI, CY
     RU 2279427
                          C2
                                20060710
                                            RU 2002-108928
20000919
     IN 2002DN00107
                                20070406
                          Α
                                            IN 2002-DN107
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20020128 ZA 2002000937 20030502 Α ZA 2002-937 20020201 NO 2002001408 Α 20020514 NO 2002-1408 20020321 NO 322500 **B1** 20061016 PRIORITY APPLN. INFO.: US 1999-155400P 19990922 EP 2000-965172 A3 20000919 WO 2000-US25710 20000919 OTHER SOURCE(S): MARPAT 134:266299

$$R^{2?}$$
 $R^{2?}$
 $R^{2?}$
 R^{2}
 R^{2}

GI

Title compds. [I; Q = C, N; A = O, S; B = (CH2)x; Z = CH2AB O, bond; X = CH, N; R1 = H, alkyl; R2 = H, alkyl, alkoxy, halo, amino; R3 = H, alkyl, aralkyl, aryloxycarbonyl, alkoxycarbonyl, arylcarbonyl, alkylcarbonyl, aryl, heteroaryl, hydroxyalkyl, aryloxyarylalkyl, etc.; R2a, k2b, k2c = н, alkyl, alkoxy, halo, amino; Y = CO2R4, 1-tetrazolyl. PO(OR4a)R5; R4 = H, alkyl, prodrug or ester; R4a = H, prodrug ester; R5 = alkyl, aryl; x = 1-4; m, n = 1, 2], were prepared as modulators of blood glucose levels, triglyceride levels, insulin levels, and nonesterified fatty acid levels (no data). Thus, 4hydroxybenzaldehyde, 5-methyl-2-phenyloxazole-4ethanol, Ph3P, and DEAD were stirred in THF at 0°-room temperature to give 65% 4-(5-methyl-2-phenyloxazole-4ethyl)benzaldehyde. This was stirred 12 h with N-

benzylglycine Et ester and NaBH(OAc)3 in 1,2-dichloroethane to give 55% benzylamine derivative, which was stirred 14 h with aqueous NaOH in MeOH to give 71% title compound (II).

331740-62-6P IT

RL: BAC (Biological activity or effector, except adverse); BSU (Biological

study, unclassified); SPN (Synthetic preparation); THU

(Therapeutic use);

BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of oxazolyl- and thiazolylalkoxybenzylglycines and related

compds. as antidiabetic and antiobesity agents)

RN 331740-62-6 CAPLUS

Glycine, N-[[4-[2-(5-methy]-2-pheny]-4-CN

oxazolyl)ethoxylphenyllmethyll-N-

[[4-(3-thienyloxy)phenyl]methyl]- (9CI) (CA INDEX NAME)

REFERENCE COUNT: AVAILABLE FOR THIS

THERE ARE 3 CITED REFERENCES

RECORD. ALL CITATIONS

AVAILABLE IN THE RE FORMAT

CAPLUS COPYRIGHT 2007 ACS on STN L6 ANSWER 25 OF 44 ACCESSION NUMBER: 2001:195207 CAPLUS <u>Full</u>-text DOCUMENT NUMBER:

3

TITLE:

transferases INVENTOR(S):

D.; Augeri, David J.;

Stephen A.; Janowick,

O'Connor, Stephen J.;

Swenson, Rolf E.;

134:237827

Inhibitors of protein isoprenyl

Sebti, Said M.; Hamilton, Andrew

Barr, Kenneth J.; Fakhoury.

David A.; Kalvin, Douglas M.;

Rosenberg, Saul H.; Shen, Wang:

Sorensen, Bryan K.; Sullivan,

Gerard M.; Tasker, Andrew S.; Wasicak, James T.:

Nelson, Lissa T. J.;

Henry, Kenneth J.; Wang, Le; Liu, Gang; Gunawardana,

Indrani W.

PATENT ASSIGNEE(S): University of Pittsburgh, USA SOURCE: U.S., 442 pp., Cont.-in-part of

U.S. Ser. No. 852,858,

abandoned. CODEN: USXXAM

DOCUMENT TYPE: Patent English LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO. DATE	KIND	DATE	APPLICATION NO.
us 6204293 19980507	В1	20010320	us 1998-73807
PRIORITY APPLN. INFO.: P 19951106			US 1995-7247P
			us 1996-740909
в2 19961105		·	us 1997-852858

B2 19970507

OTHER SOURCE(S):

SOURCE(S): MARPAT 134:237827
Compds. R3-Z-L1-aryl [aryl is a benzene ring having AB certain substituents R1, R2, R4; L1 is absent or is L4OL5, where L4 and L5 are absent or (un)substituted alkylene or alkenylene, with the proviso that at least one of L4 and L5 is not absent; Z is a covalent bond; R3 is (un)substituted aryl or cycloalkyl, cycloalkenyl] were prepared as inhibitors of protein isoprenyl transferases. Thus, N-[4-(2thienylmethoxymethyl)-2-(2methylphenyl)benzoyljmethionine lithium salt, prepared via amidation reaction, showed 96% inhibition of farnesyltransferase at 1x10-6 M.

IT 216088-62-9P 216088-63-0P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological

study, unclassified); SPN (Synthetic preparation): THU (Therapeutic use);

BIOL (Biological study); PREP (Preparation); USES

• Li

RN 216088-63-0 CAPLUS
CN L-Methionine, N-[[2'-methy]-5-[(3-thieny]methoxy)methyl][1,1'-biphenyl]-2-yl]carbonyl]-, monolithium salt (9CI) (CA INDEX NAME)
Absolute stereochemistry.

• Li

IT <u>216086-56-5P</u>
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(inhibitors of protein isoprenyl transferases) RN 216086-56-5 CAPLUS CN L-Methionine, N-[[2'-methy]-5-[(2-thieny]methoxy)methy]][1,1'-bipheny]]-2yl]carbonyl]-, methyl ester (9cī) (CA INDEX NAME)

Absolute stereochemistry.

REFERENCE COUNT: AVAILABLE FOR THIS

THERE ARE 8 CITED REFERENCES

RECORD. ALL CITATIONS

AVAILABLE IN THE RE FORMAT

L6 ANSWER 26 OF 44 CAPLUS COPYRIGHT 2007 ACS on STN 2000:824211 CAPLUS Full-text ACCESSION NUMBER:

8

DOCUMENT NUMBER: 134:4764

TITLE: Preparation of 3-

(benzoylamino)propionic acid

derivatives as glucagon

antagonists/inverse agonists

INVENTOR(S): Ling, Anthony; Plewe, Michael

Bruno; Truesdale, Larry

Kenneth; Lau, Jesper; Madsen.

Peter; Sams, Christian;

Behrens, Carsten; Vagner, Josef;

Christensen, Inge

Thoger; Lundt, Behrend Frederik;

Sidelmann, Ulla

Grove: Thogersen, Henning Novo Nordišk A/S, Den.; Agouron

PATENT ASSIGNEE(S): Pharmaceuticals, Inc. SOURCE:

PCT Int. Appl., 564 pp.

CODEN: PIXXD2

DOCUMENT TYPF:

Patent Enalish

LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO. DATE	KIND DATE	APPLICATION NO.
wo 2000069810	A1 20001123	WO 2000-DK264
20000516		•
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	DK, DM, DZ, EE,	ES, FI, GB, GD,
IĎ, IĹ, IN,	IS, JP, KE, KG,	KP, KR, KZ, LC,
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DK, ES, FI,	FR, GB, GR, IE,	IT, LU, MC, NL,
PT, SE, BF, BJ, CF, CG. CI. CM.	GA. GN. GW. MI	MR, NE, SN, TD, TG
us 6503949 20000516	в1 20000516	US 2000-572553
CA 2373892	A1 20001123	CA 2000-2373892
20000516 EP 1183229	A1 20020306	EP 2000-926725
20000516		
	B1 20051026 DE. DK. ES. FR.	GB, GR, IT, LI,
LU, NL, SE, MC, PT,		05, dit, 11, 11,
IE, SI, LT, BR 2000010651	A 20020319	BR 2000-10651
20000516 HU 200201033	A2 20020729	ни 2002-1033
20000516		
JP 2002544254 20000516	т 20021224	JP 2000-618228
AT 307798 20000516	T 20051115	AT 2000-926725
ES 2250128	т3 20060416	ES 2000-926725
20000516 ZA 2001008560	A 20020613	ZA 2001-8560
20011018		
NO 2001005607 20011116	A 20020117	NO 2001-5607
us 2003220350	A1 20031127	US 2002-233851

20020830	_			
US 6875760 US 2005203108	B2 A1	20050405 20050915	ш	2004-980199
20041103	AT.	20030313	03	2004-960199
PRIORITY APPLN. INFO.: A 19990517			DK	1999-684
			DK	2000-478
A 20000321			IIS	1999-134415p
P 19990517			•	
P 20000323			US	2000-191685P
A3 20000516			US	2000-572553
A3 20000516			WO	2000-DK264
w 20000516				
A3 20020830			US	2002-233851
OTHER SOURCE(S):	MARPAT	134:4764		

GI

The title compds. [I; V = CO2R2, CONR2R3, CONR2OR3, etc. (wherein R2, R3 = H, alkyl); A = (CH2)n(CR8R9)bNR7, (CR8R9)b(CH2)nNR7, (CR8R9)b(CH2)n,

etc. (b = 0-1; n = 0-3; R7 = H, alkyl,(cycloalkyl)alkyl; R8, R9 = H, alkyl); Y = C0, S02, 0, a bond; z = (un)substituted phenylene, divalent radical derived from 5-6 membered hetéroarom. ring containing 1-2 heteroatoms selected from N, O and S; or AYZ together = II; R1 = H, alkyl: X =CO(CR13R14)r(CH2)s, SO2(CR13R14)r(CH2)s, CO2(CR13R14)r(CH2)s, etc. (r = 0-1; s = 0-3; R13, R14)= H, alkyl); D = (un)substituted Ph, pyridyl, cyclopropyl, etc.; E = (un)substituted quinolinyl, 2,5-dioxopiperidinyl, biphenylalkyl, etc.] which act to antagonize the action of the glucagon hormone on the glucagon receptor (data given), and therefore may be suitable for the treatment and/or prevention of any glucagon-mediated conditions and diseases such as hyperglycemia, Type 1 diabetes, Type 2 diabetes and obesity, were prepared and formulated. E.g., a multistep solid phase synthesis of III was given. I are effective at 0.05-10 mg/kg/day.

IT 307988-13-2P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological

study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);

BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of 3-(benzoylamino)propionic acid derivs as glucagon antagonists/inverse agonists)

307988-13-2 CAPLUS

CN β -Alanine, N-[4-[[[[4-(4-chlorophenyl)-2-

thienyl]carbonyl](4-

RN

cyclohexylphenyl)amino]methyl]benzoyl]- (9CI) INDEX NAME)

REFERENCE COUNT: AVAILABLE FOR THIS THERE ARE 3 CITED REFERENCES

RECORD. ALL CITATIONS

AVAILABLE IN THE RE FORMAT

ANSWER 27 OF 44 CAPLUS COPYRIGHT 2007 ACS on STN **ACCESSION NUMBER:** 2000:535123 CAPLUS <u>Full-text</u>

3

DOCUMENT NUMBER: 133:150585

TITLE:

1H-

Preparation of 2,3,4,5-tetrahydro-

[1,4]benzodiazepine-3-hydroxamic

acid as matrix

INVENTOR(S):

Santos, Efren Guillermo;

Mina

PATENT ASSIGNEE(S):

SOURCE:

Levin, Jeremy Ian; Chen, James

metalloproteinase inhibitors

Albright, Jay Donald; Delos

PCT Int. Appl., 165 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

American Cyanamid Company, USA

Patent English 1

PATENT NO. KIND DATE APPLICATION NO. DATE wo 2000044730 A1 20000803 wo 2000-us1991

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GM, HR, HU, ID, IL,
              IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR,
LS, LT, LU, LV, MA,
              MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO,
RU, SD, SE, SG, SI,
              SK, SL, TJ, TM, TR, TT, TZ, UA, UG, UZ, VN,
YU, ZA, ZW
          RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW,
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              DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,
PT, SE, BF, BJ, CF,
              CG, CI, CM, GA, GN, GW, ML, MR, NE, SN, TD, TG
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                                              NO 2001-3675
20010726
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BG 105736 A 20020531 BG 2001-105736

20010726

PRIORITY APPLN. INFO.: US 1999-198243P

P 19990127

US 1999-239080

A 19990127

WO 2000-US1991

w 20000127

OTHER SOURCE(S): MARPAT 133:150585

GI

HO-NH
$$R1$$
 $R2$
 $R3$
 $R4$

The title compds. (I) [wherein R = H, alkyl, CN, OH, alkoxy, SH, alkylthio, (O)CF3, Cl, F, NH2, (di)alkylamino, acylamino, NO2, CONH2, or (un)substituted SO2NH2 or alkoxyacetylamino; R1 and R2 = independently H or Me; R3 = alkyl, (un)substituted NH2CH2CO, (hydroxy)acyl, CHO, (hetero)arylacyl, alkoxyacyl, alkylSO2, (hetero)arylalkylSO2, benzyloxycarbonyl, benzoyl, pyridinylcarbonyl, etc.; R4 = (un)substituted alkynyloxy, furanylmethoxy, thiophenylmethoxy, pyrrolylmethoxy, (iso)thiazolylmethoxy, (is)oxazolylmethoxy, or pyrazolylmethoxy] were prepared for the treatment of disease conditions mediated by matrix metalloproteinases (MMP) and TNF-α converting enzyme

(TACE), such as tumor growth, osteoarthritis, rheumatoid arthritis, and degenerative cartilage loss. Examples include syntheses for over 300 intermediates and nearly 90 target compds. (some data given). In vitro gelatinase, collagenase, and TACE inhibition assays are described (some data given). For instance, the Me carboxylate of II (preparation given) was converted to the title N-hydroxy carboxamide II in three steps. II inhibited MMP-1, MMP-9, MMP-13, and TACE with IC50 values of 165 nM, 36 nM, 10 nM, and 59 nM, resp.

IT <u>233754-56-8P</u>

RL: RCT (Reactant); SPN (Synthetic preparation); PREP
(Preparation); RACT

(Reactant or reagent)

(preparation of tetrahydro-1H-[1,4]benzodiazepine-3-hydroxyamic acid MMP and

TACE inhibitors by cyclization of 2-[(2-

aminobenzyl)amino]acrylates to

tetrahydrobenzodiazepine-3-carboxylates and multistep conversion to

the N-hydroxy 3-carboxamides)

RN 233754-56-8 CAPLUS

CN 2-Propenoic acid, 2-[[(4-methoxyphenyl)sulfonyl][[2-[(2-

thienylcarbonyl)amino]phenyl]methyl]amino]-, methylester (9CI) (CA INDEX NAME)

REFERENCE COUNT:

10

THERE ARE 10 CITED

REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS

AVAILABLE IN THE RE FORMAT

L6 ANSWER 28 OF 44 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: 2000:381701 CAPLUS <u>Full-text</u> DOCUMENT NUMBER: 133:17487

TITLE: Preparation of

tetrahydrobenzodiazepine hydroxamic

acids as matrix metalloproteinase

inhibitors
INVENTOR(S):

Efren G.; Du, Xuemei

PATENT ASSIGNEE(S):

SOURCE:

No. 237,058,

Albright, Jay D.; Delos, Santos

American Cyanamid Company, USA U.S., 61 pp., Cont. of U.S. Ser.

abandoned.

CODEN: USXXAM

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO. KIND DATE

APPLICATION NO.

DATE

US 6071903 A 20000606 US 1999-318919 19990526 PRIORITY APPLN. INFO.: US 1998-93057P P 19980127 US 1999-237058

B1 19990126 OTHER SOURCE(S): MARPAT 133:17487 GI

HOHN
$$R1$$
 $R2$
 $R3$
 $R4$

Title compds. [I; R = H, (un)substituted NH2, OH, alkyl, alkoxy, etc.; R1,R2 = H or Me; R3 = (hetero)arylcarbonyl, etc.; R4 = alkoxy, OC6H4R5-4, (un)substituted Ph, etc.; R5 = H, halo, (un)substituted heteroaryl, etc.] were prepared Thus, HOCH2CH(NH2)CO2CMe3(preparation give) was N-acylated by 4-(MeO)C6H4SO2Cl and the product N-alkylated by 2-(O2N)C6H4CH2Br to give serine derivative II (R6 = NO2, R7 = OH, R8 = H) which was reduced and the product N-acylated by 3-(F3C)C6H4COCl to give, after dehydration, II [R6 = 3-(F3C)C6H4CONH, R7R8 = bond]. The latter was cyclized to give, after saponification and amidation, I [R = R1 = R2 = H, R3 = COC6H4(CF3)-3, R4 = OMe]. Data for biol. activity of I were given.

Ι

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT

(Reactant or reagent)

(Preparation of tetrahydrobenzodiazepine hydroxamic acids as matrix

metalloproteinase inhibitors)

RN 233754-56-8 CAPLUS

CN 2-Propenoic acid, 2-[[(4-methoxyphenyl)sulfonyl][[2-[(2-

thienylcarbonyl)amino]phenyl]methyl]amino]-, methylester (9CI) (CA INDEX NAME)

RN 233755-58-3 CAPLUS
CN 2-Propenoic acid, 2-[[[4-(4-chlorophenoxy)phenyl]sulfonyl][[2-[(2-thienylcarbonyl)amino]phenyl]methyl]amino]-, methylester (9CI) (CA INDEX NAME)

PAGE 1-A

0 CH2 || || Me0— C— C—— R

REFERENCE COUNT:

14

THERE ARE 14 CITED

REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS

AVAILABLE IN THE RE FORMAT

CAPLUS COPYRIGHT 2007 ACS on STN L6 ANSWER 29 OF 44

ACCESSION NUMBER: 1999:640697 CAPLUS Full-text DOCUMENT NUMBER:

131:267045

TITLE:

Peptidomimetic antagonists for

treatment of CD11/CD18

adhesion receptor-mediated

disorders

INVENTOR(S):

PATENT ASSIGNEE(S):

SOURCE:

Burdick, Daniel J. Genentech, Inc., USA PCT Int. Appl., 230 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

LANGUAGE:

Patent English

1

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.
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wo 9949856	A2	19991007	wo 1999-us6410
19990324 WO 9949856	. 7	10001110	
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PRIORITY APPLN. INFO.:
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P 19980327
                                            EP 1999-912869
A3 19990324
                                            wo 1999-us6410
W
   19990324
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B1 20000914

OTHER SOURCE(S): MARPAT 131:267045

AB Peptidomimetic compds. (Markush included) that are useful for treating Mac-1- or LFA-1-mediated disorders, e.g. inflammatory disorders, allergies, and autoimmune diseases, are provided.

IT <u>245465-12-7P</u> <u>245465-14-9P</u> <u>245465-33-2P</u> <u>245465-55-8P</u> <u>245465-56-9P</u> <u>245466-38-0P</u> 245466-42-6P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological

study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use):

BIOL (Biological study); PREP (Preparation); USES (Uses)

(peptidomimetic antagonists for treatment of CD11/CD18 adhesion

receptor-mediated disorders)

RN 245465-12-7 CAPLUS

CN L-Alanine, N-[2-chloro-4-[[[1-oxo-3-(2-thienyl)-2-propenyl]amino]methyl]benzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Double bond geometry unknown.

RN 245465-14-9 CAPLUS

CN L-Asparagine, N2-[2-chloro-4-[[[1-oxo-3-(2-thienyl)-2-propenyl]amino]methyl]benzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

Absolute stereochemistry. Double bond geometry unknown.

RN 245465-55-8 CAPLUS
CN L-Alanine, 3-amino-N-[2,6-dimethyl-4-[[[1-oxo-3-(2-thienyl)-2-propenyl]amino]methyl]benzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

RN 245465-56-9 CAPLUS CN L-Lysine, N2-[2,6-dimethy]-4-[[[1-oxo-3-(2-thieny])-2propenyl]amino]methyl]benzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Double bond geometry unknown.

RN 245466-38-0 CAPLUS CN L-Asparagine, N2-[2-ch]oro-4-[(1s)-1-[[1-oxo-3-(2-thienyl)-2-propenyl]amino]ethyl]benzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry. Double bond geometry unknown.

RN 245466-42-6 CAPLUS
CN L-Alanine, N-[2-chloro-4-[(1s)-1-[[1-oxo-3-(2-thienyl)-2-propenyl]amino]ethyl]benzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.
Double bond geometry unknown.

L6 ANSWER 30 OF 44 CAPLUS COPYRIGHT 2007 ACS on STN ACCESSION NUMBER: 1999:640160 CAPLUS <u>Full-text</u>

DOCUMENT NUMBER: 131:271803

TITLE: Thienyl-, furyl- and pyrrolyl-sulfonamides and

derivatives thereof that modulate the activity of

endothelin

INVENTOR(S): Chan, Ming Fai; Wu, Chengde; Raju, Bore Gowda; Kogan,

Timothy; Kois, Adam; Verner, Erik Joel; Castillo,

Rosario Silvestre; Yalamorri, Venkatachalapathi;

PATENT ASSIGNEE(S):

Balaji, Vitukudi Narayanaiyengar
Texas Biotechnology Corp., USA

SOURCE: U.S., 82 pp., Cont.-in-part of U.S. Ser. No. 477,223.

CODEN: USXXAM

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 10

PATENT INFORMATION:

PATENT NO. DATE	KIND	DATE	APPLICATION NO.
US 5962490 19960927	Α	19991005	us 1996-721183
US 5464853 19931021	Α	19951107	us 1993-142159
US 5514691 19931021	Α	19960507	us 1993-142552
US 5591761 19940405	Α	19970107	us 1994-222287
US 5571821	Α	19961105	us 1994-247072

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US 6420567	в1	20020716	uc 1007 02022F
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A2 19900515	•		
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DZ 133303Z0			
			US 1993-100125
в2 19930730			00 100125
J_ 13330130		·	- 400
			US 1993-100565
A2 19930730			
			uc 1000 1401E0
-2 40024654			us 1993-142159
A2 19931021			

				HC	1993-142552
Α2	19931021	·			
в2	19931021			US	1993-142631
Δ2	19940405			US	1994-222287
				US	1994-247072
	19940520			US	1995-417075
Α2	19950404				1995-477223
Α2	19950606				_
Α2	19960404			WO	1996-US4759
Α	19950404			ŲS	1995-416199
Α	19960404		•	AU	1996-55367
				US	1996-721183
Α	19960927		,	FP	1997-943629
А3	19970926				
А3	19970926				1998-515979
А3	19970926			US	1997-938325
W	19970926			WO	1997-US17402
				US	2001-11610
	20011105 HER SOURCE(S):	MARPAT	131:271803		

AB Thienyl-, furyl- and pyrrolyl-sulfonamides, and methods for modulating or altering the activity of the endothelin family of peptides, are provided. In

```
particular, the disclosure includes N-
     (isoxazolyl)thienylsulfonamides, N-
     (isoxazolyl)furylsulfonamides, and N-
     (isoxazolýl)pyrrolylsulfonamides, and methods using
     these sulfonamides for inhibiting the binding of an
     endothelin peptide to an endothelin receptor.
     compds are described by the formula Ar2SO2NHAr1 [I;
     Ar1 = (un) substituted aryl, particularly isoxazolyl;
     Ar2 = biol. effective group for inhibiting endothelin
     binding by \geq 50% at \leq100 \muM, notably thienyl, furyl,
     pyrrolyl, etc.]. Methods for treating endothelin-
     médiated disorders by administering effective amts. of
     I or their prodrugs are also provided. Such disorders
     include hypertension, cardiovascular disease, asthma,
     hypertension, inflammatory disease, glaucoma, etc.
     Approx. 190 synthetic examples are given, and numerous
     example compds. were prepared, tested, and/or_claimed.
     For instance, 5-amino-4-bromo-3-methylisoxazole was
     treated with NaH in THF, followed by thiophene-2-
     sulfonyl chloride, to give 34% title compound II.
     similarly prepared title compound III had IC50 values
     of 0.024 \mu M for ETA receptors and 7.95 \mu M for ETB
     receptors, indicating substantial selectivity for ETA.
     205516-75-2P, N-[3-[[3-[(4-Chloro-3-methyl-5-
isoxazolyl)sulfamoyll-
     2-thienyl]carboxamido]-2,4,6-trimethylbenzoyl]glutamic
     205516-76-3P, N-[3-[[3-[(4-Chloro-3-methyl-5-
isoxazolyl)sulfamoyl]-
     2-thienyl]carboxamido]-2,4,6-trimethylbenzoyl]aspartic
    RL: BAC (Biological activity or effector, except
adverse); BSU (Biological
     study, unclassified); SPN (Synthetic preparation); THU
(Therapeutic use);
     BIOL (Biological study); PREP (Preparation); USES
(Uses)
        (target compound; preparation of thienyl-, furyl-
and pyrrolyl-based
        sulfonamides and analogs as endothelin agonists and
antagonists)
     205516-75-2 CAPLUS
     L-Glutamic acid, N-[3-[[[3-[[(4-ch]oro-3-methy]-5-
     isoxazolyl)amino]sulfonyl]-2-thienyl]carbonyl[amino]-
2,4,6-
```

Absolute stereochemistry.

trimethylbenzoyl] - (9CI) (CA INDEX NAME)

acid

acid

RN

CN

RN 205516-76-3 CAPLUS

CN L-Aspartic acid, N-[3-[[[3-[[(4-chloro-3-methyl-5-isoxazolyl)amino]sulfonyl]-2-thienyl]carbonyl]amino]-2,4,6-

trimethylbenzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

REFERENCE COUNT: 64 THERE ARE 64 CITED

REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS

AVAILABLE IN THE RE FORMAT

L6 ANSWER 31 OF 44 CAPLUS COPYRIGHT 2007 ACS on STN ACCESSION NUMBER: 1999:487279 CAPLUS <u>Full-text</u>

DOCUMENT NUMBER: 131:130010

TITLE: Preparation of 2,3,4,5-tetrahydro-

1H-[1,4]benzodiazepine-3-hydroxamic acids as matrix metalloproteinase inhibitors INVENTOR(S): Albright, Jay Donald; Delos Santos, Efren Guillermo; Du, Xuemei PATENT ASSIGNEE(S): American Cyanamid Company, USA PCT Int. Appl., 149 pp. SOURCE: CODEN: PIXXD2 DOCUMENT TYPE: Patent English LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.
DATE			
wo 9937625 19990122	A1	19990729	wo 1999-us1325
	A11 A7		DC DD DV C:
CH, CN, CU, CZ, DE,	AU, AZ	, ва, вв,	BG, BR, BY, CA,
	FI, GB	, GD, GE,	GH, GM, HR, HU,
ID, IL, IN, IS, JP,		•	, , ,
KE, KG, KP, LV, MD, MG, MK, MN,	KR, KZ	, LC, LK,	LR, LS, LT, LU,
	NZ. PL	. PT. RO.	RU, SD, SE, SG,
SI, SK, SL, TJ, TM,	•		
TR, TT, UA,	UG, UZ	, VN, YU,	ZW
CH, CY, DE, DK, ES,	LS, MW	, SD, SZ,	UG, ZW, AT, BE,
	GR. IE	. IT. LU.	MC, NL, PT, SE,
BF, BJ, CF, CG, CI,			•
CM, GA, GN, CA 2317546	GW, ML	, MR, NE,	SN, TD, TG
19990122	AI	19990729	CA 1999-2317546
AU 9922402	Α	19990809	AU 1999-22402
19990122			
BR 9907746	Α	20001017	BR 1999-7746
19990122 EP 1051407	A1	20001115	EP 1999-902417
19990122	ΑI	20001113	EP 1999-902417
R: AT, BE, CH, LU, NL, SE, PT, IE,	DE, DK	, ES, FR,	GB, GR, IT, LI,
SI, LT, LV,	FI, RO		
JP 2002501056	T		JP 2000-528549
19990122			

ни 200100277 19990122	A2	20020228	ни 2001-277
ZA 9900569 19990126	Α	20000726	ZA 1999-569
NO 2000003828 20000726	Α	20000926	NO 2000-3828
PRIORITY APPLN. INFO.: A 19980127			us 1998-14374
w 19990122			wo 1999-us1325
W 19990122			

OTHER SOURCE(S):

MARPAT 131:130010

GI

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Compds. having formula [I; R = H, C1-3 alkyl, cyano, AB OR', SR', CF3, OCF3, Cl, F, NH2, Cl-3 alkyl-amino, Cl-3-alkyl-CONR', NR'R', NO2, CONH2, SO2NH2, SO2NR'R', Cl-3 alkyl-OCH2CONR'; wherein R' = Cl-3 alkyl, H; R4 = Q, Ql, Q2, Q3, Q4; wherein X = O, S; R'' = H, halo, cyano, Me, OMe; R1, R2 = H, Me; R3 = C1-8 alkyl, NH2CH2CO, C1-6 alkyl-NHCH2CO, HO(CH2)mCO, CHO, aryl-(CH2) nCO, heteroary l-(CH2)nCO, C1-3 alky l-O(CH2)nCO, C1-3-alkyl-co, C1-3 alkyl-conhch2co, C3-7 cycloalkyl-CO, C1-3 alkyl-So2, etc.; wherein m = 1-3; n = 0-3], which are useful for the treatment of disease conditions mediated by matrix metalloproteinases, such as tumor growth, osteoarthritis, rheumatoid arthritis and degenerative cartilage loss, are prepared Thus, to a solution of 0.556 mmol of 4-(4methoxybenzenesulfonyl)-1- (3-trifluoromethylbenzoyl)-2,3,4,5-tetrahydro-1H-[],4]benzodiazepine-3carboxylic acid (preparation given) in 5 mL of CH2Cl2, was added 1.11 mmol of 2.0 M oxalyl chloride in CH2Cl2 and 0.044 mL of N,N-dimethylformamide. The mixture was stirred under nitrogen at room temperature for 1.5 h and cooled in an ice bath, treated with a chilled mixture of 2.24 mmol hydroxylamine hydrochloride and 3.36 mmol of triethylamine in 1.39 mL of THF and 0.33 mL of H2O, and stirred at room temperature overnight to give the title compound (II; R5 = CF3). H) in vitro showed IC50 of 15.8, 0.56, 0.4, and 95 ± 10 nM against interstitial collagenase (MMP-1).

gelatinase (MMP-9), MMP-13, and TNF- α converting enzyme (TACE), resp.

IT <u>233754-56-8P</u> <u>233755-58-3P</u>

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT

(Reactant or reagent)

(preparation of tetrahydrobenzodiazepinehydroxamic acids as matrix

metalloproteinase inhibitors for treating matrix metalloproteinases-

mediated disease conditions)

RN 233754-56-8 CAPLUS

CN 2-Propenoic acid, 2-[[(4-methoxyphenyl)sulfonyl][[2-[(2-

thienylcarbonyl)amino]phenyl]methyl]amino]-, methylester (9CI) (CA INDEX NAME)

RN 233755-58-3 CAPLUS
CN 2-Propenoic acid, 2-[[[4-(4-chlorophenoxy)phenyl]sulfonyl][[2-[(2-thienylcarbonyl)amino]phenyl]methyl]amino]-, methylester (9CI) (CA INDEX NAME)

PAGE 2-A

REFERENCE COUNT: 15

THERE ARE 15 CITED

REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS

AVAILABLE IN THE RE FORMAT

L6 ANSWER 32 OF 44 ACCESSION NUMBER:

CAPLUS COPYRIGHT 2007 ACS on STN 1999:206866 CAPLUS Full-text

DOCUMENT NUMBER:

130:291600

TITLE:

Amides, bone formation promoters

containing them, and

their use as antiosteoporotic

agents

INVENTOR(S):

Shibata, Saizo; Omori, Fujimi;

Nakagawa, Takashi PATENT ASSIGNEE(S):

Japan Tobacco, Inc., Japan

SOURCE:

Jpn. Kokai Tokkyo Koho, 45 pp.

CODEN: JKXXAF

DATE

DOCUMENT TYPE:

Patent

LANGUAGE:

Japanese

FAMILY ACC. NUM. COUNT:

Japanese 1

PATENT INFORMATION:

KIND

APPLICATION NO.

PATENT NO.

JP 11080107

A 19990326

JP 1997-251360

19970901

PRIORITY APPLN. INFO.:

JP 1997-251360

19970901

OTHER SOURCE(S):

MARPAT 130:291600

GI

Bone formation promoters contain amides I [W = H, amino, NHCOR3 (R3 = lower alkyl), lower alkoxycarbonyl, cycloalkyl, naphthyl, morpholino, thienyl, phthalimido, benzoyl, benzyloxy, C6H4R4 (R4 = H, halo, lower alkyl, lower alkoxy); Y = O, NHCO2, NHCO, CONH, CO, CO2, OCO, CO(CH:CH)u (u = 1, 2), direct bond; ring A = benzene, naphthalene, cyclohexane, biphenyl, di-Ph ether, pyridine, isoxazole, thiophene; R1 = H, halo, NO2, lower alkyl, lower alkoxy; R2 = H, lower alkyl; Z = halo, OH, lower alkyl, lower alkoxy, lower alkoxycarbonyl, carboxy, NR5R6 [R5, R6 = H, (hydroxy)alkyl, aryl, lower alkylcarbonyl], N+R7R8R9 [R7, R8 = lower alkyl, aralkyl; R9 = lower alkyl, (halo)aralkyl, arylcarbonylalkyl], SR10 (R10 = lower alkyl, aralkyl), SO2R11 (R11 = lower alkyl, aralkyl), SOR12 (R12 = lower alkyl, aralkyl), Sr13R14 (R13, R14 = lower

alkyl), morpholino, pyridyl, pyridinio, Q (R15 = lower alkyl), Q1 (R16 = lower alkyl), Q2 (R17 = lower alkyl), Q3 (R18 = lower alkyl); R2 and R5 may be bonded to each other to form Q4 (R6 = any group given above); R2 and R7 may be bonded to each other to form Q5 (R8, R9 = any group given above), m = 0-20; n = 0-4] or their pharmaceutically acceptable salts as active ingredients. Pharmaceutical compns. and antiosteoporotic agents containing I or their salts are also claimed. N-[2-(dimethylamino)ethyl]4-(nonyloxy)benzamide hydrochloride (preparation given) at 3 µM showed 244% osteoblast growth promoting activity.

222979-36-4P 222979-38-6P IT

RL: BAC (Biological activity or effector, except adverse); BSU (Biologica)

study, unclassified); SPN (Synthetic preparation); THU

(Therapeutic use):

BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of (hetero)aromatic amides as bone formation promoters for treatment of osteoporosis)

RN 222979-36-4 CAPLUS

 β -Alanine, N-[4-[[5-(2-thienyl)pentyl]oxy]benzoyl]-, CN ethyl ester

(9CI) (CA INDEX NAME)

RN 222979-38-6 **CAPLUS** β -Alanine, N-[4-[[5-(2-thienyl)pentyl]oxy]benzoyl]-(9CI) (CA INDEX

NAME)

L6 ANSWER 33 OF 44 CAPLUS COPYRIGHT 2007 ACS on STN ACCESSION NUMBER: 1999:113654 CAPLUS <u>Full-text</u>

DOCUMENT NUMBER: 130:168653

TITLE: Preparation of methionine-

containing aniline-derived

sulfonamides as inhibitors of

protein farnesyl

transferase (PFTase) and

geranylgeranyl transferase

(GGTase)

INVENTOR(S):

Gotteland, Jean-Pierre; Halazy,

Serge; Perrin,

Dominique; Hill, Bridget

Pierre Fabre Medicament, Fr.

PATENT ASSIGNEE(S): SOURCE:

PCT Int. Appl., 79 pp.

CODEN: PIXXD2

DOCUMENT TYPE:

Patent

LANGUAGE:

French

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.
DATE			
	. 1	10000011	
WO 9906376	A1	19990211	WO 1998-FR1694
19980730			
W: AU, BR, CA,			
RW: AT, BE, CH,	CY, DE,	, DK, ES, FI	, FR. GB. GR.
IE, IT, LU, MC, NL,			, ,
PT, SE			
FR 2766819	A 1	19990205	FR 1997-9802
19970731			. K 1337 3002
FR 2766819	в1	19991029	
AU 9889852	. A	19990222	AU 1998-89852
19980730		20000222	A0 1550 05052
PRIORITY APPLN. INFO.:			FR 1997-9802
A 19970731			IR 1557 5002
			WO 1998-FR1694
			MO T330-FKT034

W 19980730 OTHER SOURCE(S): GI

MARPAT 130:168653

Title compds. [I; R1 = specified 4-mercaptopyrrolidin-AB 2-yl, 5-oxopyrrolidin-2-yl, 5-thioxopyrrolidin-2-yl, thiazolidinyl-4-yl, 2-oxothiazolidin-4-yl, 2thioxothiazólidin-4-yl, etc.; R2 = (un) saturated C1-20 alkyl, aryl, alkylaryl, (alkyl)heteroaryl, CF3, NO2, CN, Cl, F, Br, OCF3, OH, SH, OR9, SR9, NHR9R10, COR9, CONR9R10, COOR9, NHCOR9; R9, R10 = C1-5 alkyl, aryl, heteroaryl; X = (CH2)n, CO, (CH2)nCO, CO(CH2)n; n = 1-5; R3 = H, F, Cl, Br, I, CF3, SiMe3, OH, SH, OR11, SR11; R11 = aryl, heteroaryl; R4 = CH2CH2SMe, CH2CH2S(O)Me, CH2CH2SO2Me, CH2OH, CH2CH2OH, iso-Bu, sec-Bu, Bu, CH2OMe, CH2CH2OMe, CH2CH: CH2, CH2SH, CH2SMe, CH2SCH2Ph, CH2CH2SPh, CH2CH2S(2-thienyl). (CH2) mNHCOMe, (CH2) mNH2, (CH2) mNHMe, (CH2) mNMe2; m =1-4; R5 = H, (branched) alkyl] and their pharmacol. acceptable salts were prepared For example, title sulfonamide II was prepared (preparation not given but product characterizing NMR data provided), and it inhibited PFTase with IC50 = 20 nM.

IT 220452-89-1

RL: BAC (Biological activity or effector, except adverse); BSU (Biological

study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(preparation of methionine-containing, anilinederived sulfonamides as

inhibitors of protein farnesyl transferase and geranylgeranyl transferase)

RN 220452-89-1 CAPLUS L-Methionine, N-[[5-[(1H-imidazol-4-ylmethyl)(2-CN thienylcarbonyl)amino][1,1'-biphenyl]-2-yl]carbonyl]-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

REFERENCE COUNT: AVAILABLE FOR THIS

PATENT ASSIGNEE(S):

L6

THERE ARE 2 CITED REFERENCES RECORD. ALL CITATIONS

AVAILABLE IN THE RE FORMAT

ANSWER 34 OF 44 CAPLUS COPYRIGHT 2007 ACS on STN 1998:744942 CAPLUS Full-text ACCESSION NUMBER: DOCUMENT NUMBER: 130:25339 TITLE: Inhibitors of protein isoprenyl transferases INVENTOR(S): Sebti, Said M.; Hamilton, Andrew D.; Augeri, David J.; Barr, Kenneth J.; Donner, Bernard G.; Fakhoury, Stephen A.; Janowick, David A.: Kalvin, Douglas M.: Larsen, John J.; Liu, Gang; O'Connor, Stephen J.; Rosenberg, Saul H.; Shen, Wang: Swenson, Rolf E.; Sorensen, Bryan K.; Sullivan, Gerard M.: Szczepankiewicz, Bruce G.; Tasker, Andrew S.; Wasick.

James I.; Winn, Martin

University of Pittsburgh, USA

2

SOURCE:

PCT Int. Appl., 618 pp. CODEN: PIXXD2

CODEN: PIXXD2
Patent
English

DOCUMENT TYPE:

LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

1711 2111 2111 OIN #11 2011		·	
PATENT NO. DATE	KIND	DATE	APPLICATION NO.
wo 9850031 19980507	A1	19981112	WO 1998-US9298
W: AL, AM, AT, CH, CN, CU, CZ, DE,			
KE, KG, KP, KR, KZ,			, IL, IS, JP,
MW, MX, NO, NZ, PL,			, MG, MK, MN,
TR, TT, UA, UG, UZ,	SD, SE	, SG, SI, SK	, SL, TJ, TM,
VN, YU, ZW RW: GH, GM, KE,	LS, MW	, SD, SZ, UG	, ZW, AT, BE,
CH, CY, DE, DK, ES, FI, FR, GB,	GR, IE	, IT, LU, MC	, NL, PT, SE,
BF, BJ, CF, CG, CI,	MI MD	, NE, SN, TD	TC
	A A	19981127	AU 1998-73719
TW 492955	В	20020701	TW 1998-
87107182 19980715 TW 541302	В	20030711	TW 1998-
87107183 19980715 PRIORITY APPLN. INFO.:			
A 19970507			us 1997-852858
w 19980507			wo 1998-US9298
OTHER SOURCE(S):	ΜΔΡΡΔΤ	130:25339	
AB Compds. R3-Z-L1-ary	larvl	is a henzer	ne ring having
certain substituent	S R1. R	2 R4: 11 is	s absent or is
L4NR5L5, L4OL5, L4S	(0)mL5	(m = 0-2).	etc. where 14
and L5 are absent o	r alkyl	ene, alkenyl	ene, R5 is H,
and L5 are absent o alkanoyl; Z is a co or imino; R3 = H, a	valent	bond, 0, S(C	(0)) q (q = 0-2), NH
cycloalkyl, etc.] w	iyi, li	uorenyi, net narod as inh	terocyclyl,
protein isoprenyl t	ransfer	Pareu as IIII Pases. Thus	N-[4-(2-
thienvlmethoxvmethv	1)-2-(2	_	- '
methylphenyl)benzoy	1]methi	onine lithiu	ım salt, prepared

via amidation reaction, showed 96% inhibition of farnesyltransferase at 1x10-6 M.

IT

216088-62-9P 216088-63-0P RL: BAC (Biological activity or effector, except adverse); BSU (Biological

study, unclassified); SPN (Synthetic preparation): THU (Therapeutic use);

BIOL (Biological study); PREP (Preparation); USES (Uses)

(inhibitors of protein isoprenyl transferases)

216088-62-9 CAPLUS RN

CN L-Methionine, N-[[2'-methyl-5-[(2-thieny]methoxy)methyl][1,1'-biphenyl]-2-

yl]carbonyl]-, monolithium salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Li

216088-63-0 CAPLUS RN CN L-Methionine, N-[[2'-methy]-5-[(3-thieny]methoxy)methy]][1,1'-bipheny]]-2yl]carbonyl]-, monolithium salt (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Li

IT 216086-56-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(inhibitors of protein isoprenyl transferases)

216086-56-5 CAPLUS RN

CN L-Methionine, N-[[2'-methy]-5-[(2-thieny]methoxy)methy]][1,1'-bipheny]]-2-

yl]carbonyl]-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

REFERENCE COUNT: AVAILABLE FOR THIS 2 THERE ARE 2 CITED REFERENCES

RECORD. ALL CITATIONS

AVAILABLE IN THE RE FORMAT

L6 ANSWER 35 OF 44 CAPLUS COPYRIGHT 2007 ACS on STN **ACCESSION NUMBER:** 1998:744940 CAPLUS <u>Full-text</u>

DOCUMENT NUMBER: 130:25338

TITLE: Inhibitors of protein isoprenyl

transferases

INVENTOR(S): Sebti, Said M.; Hamilton, Andrew D.; Augeri, David J.; Barr, Kenneth J.; Donner, Bernard G.; Fakhoury, Stephen A.; Janowick, David A.: Kalvin, Douglas M.: Larsen, John J.; Liu, Gang: O'Connor, Stephen J.; Rosenberg, Saul H.; Shen, Wang: Swenson, Rolf E.; Sorensen, Bryan K.; Sullivan. Gerard M.: Szczepankiewicz, Bruce G.: Tasker. Andrew S.; Wasick. James I.; Winn, Martin PATENT ASSIGNEE(S): University of Pittsburgh, USA PCT Int. Appl., 848 pp. SOURCE: CODEN: PIXXD2 DOCUMENT TYPE: Patent English LANGUAGE: FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. DATE	KIND	DATE	APPLICATION NO.
wo 9850029 19980507	A1	19981112	WO 1998-US9296
W: AL, AM, AT, CH, CN, CU, CZ, DE,	AU, AZ	, BA, BB, B	G, BR, BY, CA,
DK, EÉ, ES,	FI, GB	, GE, GH, H	IU, IL, IS, JP,
	LS, LT	, LU, LV, M	ID, MG, MK, MN,
MW, MX, NO, NZ, PL, PT. RO. RU.	SD. SE	. SG. ST. S	K, SL, TJ, TM,
TR, TT, UA, UG, UZ, VN, YU, ZW	,	,,, -	, 52, 13, 111,
RW: GH, GM, KE,	LS, MW	, SD, SZ, U	G, ZW, AT, BE,
CH, CY, DE, DK, ES, FI, FR, GB,	GR, IE	, IT, LU, M	IC, NL, PT, SE,
BF, BJ, CF, CG, CI, CM, GA, GN,			
CA 2288330	A1	19981112	CA 1998-2288330
19980507 AU 9874733	Α	19981127	AU 1998-74733
19980507	, ,	133011L1	. 70 1990 17199
EP 986384	A1	20000322	EP 1998-922122

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19980507
             AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI,
          R:
LU, NL, SE, MC, PT,
              IE, FI
     JP 2002518985
                                   20020625
                            Т
                                                 JP 1998-548480
19980507
     TW 492955
                                   20020701
                             В
                                                TW 1998-
87107182
                19980715
     TW 541302
                             В
                                   20030711
                                                TW 1998-
87107183
                19980715
     MX 9910186
                            Α
                                   20000630
                                                MX 1999-10186
19991105
PRIORITY APPLN. INFO.:
                                                US 1997-852858
   19970507
                                                wo 1998-us9296
   19980507
W
OTHER SOURCE(S):
                           MARPAT 130:25338
AB
      Compds. R3-Z-L1-aryl [aryl is a benzene ring having
      certain substituents R1, R2, R4; L1 is absent or is
      L4NR5L5, L4OL5, L4S(O)mL5 (m = 0-2), etc., where L4
      and L5 are absent or alkylene, alkenylene, R5 is н,
      alkanoyl; Z is a covalent bond, O, S(0)q (q = 0-2), NH
      or imino; R3 = H, aryl, fluorenyl, heterocyclyl,
      cycloalkyl, etc.] were prepared as inhibitors of protein isoprenyl transferases. Thus, N-[4-[(R)-
      thiazolidin-4- ýlcarbonylamino]-2-
      phenylbenzoyl]methionine Me ester hydrochloride,
      prepared via amidation reaction, showed 92% inhibition
      of farnesyl transferase at 1x10-6 M.
     <u>216229-74-2P</u> <u>216229-83-3P</u> <u>216232-14-3P</u> RL: BAC (Biological activity or effector, except
IT
adverse); BSU (Biological
     study, unclassified); SPN (Synthetic preparation): THU
(Therapeutic use);
     BIOL (Biological study); PREP (Preparation); USES
(Uses)
         (preparation of inhibitors of protein isopreny)
transferases)
     216229-74-2 CAPLUS
RN
     Butanoic acid, 4-(methylsulfonyl)-2-[[[5-[[(2-
CN
     thienylmethyl)amino]methyl][1,1'-biphenyl]-2-
yl]carbonyl]amino]-, (2s)-
     (9CI)
            (CA INDEX NAME)
```

Absolute stereochemistry.

RN 216229-83-3 CAPLUS
CN Butanoic acid, 4-(methylsulfonyl)-2-[[[5-[[[2-(2-thienyl)ethyl]amino]methyl][1,1'-biphenyl]-2yl]carbonyl]amino]-, (2s)(9CI) (CA INDEX NAME)

Absolute stereochemistry.

Absolute stereochemistry.

REFERENCE COUNT: 2 THERE ARE 2 CITED REFERENCES AVAILABLE FOR THIS

RECORD. ALL CITATIONS

AVAILABLE IN THE RE FORMAT

ANSWER 36 OF 44 CAPLUS COPYRIGHT 2007 ACS ON STN ACCESSION NUMBER: 1998:210751 CAPLUS Full-text

DOCUMENT NUMBER: 128:270601

TITLE: Preparation of N-

isoxazolylthiophenesulfonamides and

analogs as endothelin activity

modulators INVENTOR(S):

Kogan, Timothy P.;

Wu, Chengde; Raju, Bore Gowda;

PATENT ASSIGNEE(S):

SOURCE:

Blok, Natalie; Woodard, Patricia Texas Biotechnology Corp., USA

PCT Int. Appl., 172 pp. CODEN: PIXXD2

DOCUMENT TYPE:

LANGUAGE:

Patent English

10

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.
DATE			
wo 9813366	4.1	10000400	100717400
19970926	AI	19980402	wo 1997-us17402
	AII A7	DA DD	DC DD DV CA
CH, CN, CU, CZ, DE,	AU, AZ	, DA, DB,	BG, BR, BY, CA,
	FT. GR	. GF. GH	HU, ID, IL, IS,
JP, KE, KG, KP, KR,	, 55	, 02, 011,	110, 12, 12, 13,
	LR, LS	, LT, LU,	LV, MD, MG, MK,
MN, MW, MX, NO, NZ,	·		, , , , , , , , , , , , , , , , , , , ,
PL, PT, RO,	RU, SD	, SE, SG,	SI, SK, SL, TJ,
TM, TR, TT, UA, UG,			
UZ, VN, YU,		<u>.</u> _	•
RW: GH, KE, LS,	MW, SD	, SZ, UG,	ZW, AT, BE, CH,
DE, DK, ES, FI, FR,	· · · · · · · · · · · · · · · · · · ·	MC 111	DT 05
CF, CG, CI, CM, GA,	II, LU	, MC, NL,	PT, SE, BF, BJ,
GN, ML, MR,	NE SN	TD TC	
us 5962490	A A	19991005	US 1996-721183
19960927	^	13331003	03 1330-721183
CA 2261760	A1	19980402	CA 1997-2261760
19970926	·	_3000.02	CA 1337 2201700
CA 2261760	· C	20050329	•

AU 9745059 19970926	Α	19980417	AU 1997-45059
AU 736269 EP 946552	В2 А1	20010726 19991006	
19970926 EP 946552	R1	20040707	
			GB, GR, IT, LI,
IE, SI, LT, BR 9711550	LV,	FI, RO 20000118	BR 1997-11550
19970926 JP 2000507607	т	20000620	JP 1998-515979
19970926	-		
JP 3743520 NZ 334797	B2 A	20060208 20010223	
19970926 AT 270669	Т	20040715	AT 1997-943629
19970926		10000527	1000 1300
NO 9901388 19990322	Α	19990527	NO 1999-1388
AU 9935803 19990622	Α	19990916	AU 1999-35803
AU 726595	в2	20001116	
PRIORITY APPLN. INFO.: A 19960927			US 1996-721183
A2 19870925			us 1987-100865
A2 19900515			us 1990-416199
в2 19930520			US 1993-65202
в2 19930730			US 1993-100125
A2 19930730			us 1993-100565
A2 19931021		·	us 1993-142159
A2 19931021			US 1993-142552
в2 19931021			US 1993-142631
A2 19940405			us 1994-222287
A2 19940520			US 1994-247072
A2 19950404			us 1995-417075
· · · · · · · · · · · · · · · · · · ·			US 1995-477223

A2 19950606

19960404

AU 1996-55367

wo 1996-us4759

A2 19960404

wo 1997-us17402

19970926 OTHER SOURCE(S): GI

MARPAT 128:270601

Ι

R1SO2NHR [I; R = (un) substituted (hetero)aryl; R1 =AB R2Z2Z1; R2 = (un)substituted Ph; Z1 = thiophene-, furan-, pyrrole-2,3- or -3,2-diyl, etc.; z2 = COCH2, CONH, CO2, CH:CH, CH2O, etc.] were prepared Thus, 2methoxycarbonyl-3-thiophenesulfonyl chloride was amidated by 5-amino-4-chloro-3-methylisoxazole and the product converted in 5 steps to title compound II. Data for biol. activity of I were given.

IT

205516-75-2P 205516-76-3P RL: BAC (Biological activity or effector, except adverse); BSU (Biological

study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);

BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of N-isoxazolylthiophenesulfonamides and analogs as endothelin activity modulators)

205516-75-2 CAPLUS RN

CN L-Glutamic acid, N-[3-[[[3-[[(4-chloro-3-methy]-5isoxazolyl)amino]sulfonyl]-2-thienyl]carbonyl]amino]-2,4,6trimethylbenzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 205516-76-3 CAPLUS

CN L-Aspartic acid, N-[3-[[[3-[[(4-chloro-3-methyl-5-isoxazolyl)amino]sulfonyl]-2-thienyl]carbonyl]amino]-2,4,6-

trimethylbenzoyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

REFERENCE COUNT: AVAILABLE FOR THIS

9

THERE ARE 9 CITED REFERENCES

RECORD. ALL CITATIONS

AVAILABLE IN THE RE FORMAT

L6 ANSWER 37 OF 44 CAPLUS COPYRIGHT 2007 ACS on STN

ACCESSION NUMBER: DOCUMENT NUMBER:

TITLE:

derivatives as

INVENTOR(S):

Takenori; Doi, Takayuki

PATENT ASSIGNEE(S):

Japan

DATE

GI

SOURCE:

DOCUMENT TYPE:

LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

1997:151429 CAPLUS Full-text 126:157495

Preparation of pyridopyridine

tachykinin antagonists

Natsukari, Hideaki: Ishimaru.

Takeda Chemical Industries Ltd.

Jpn. Kokai Tokkyo Koho, 43 pp.

JP 1996-115519

JP 1995-113594

CODEN: JKXXAF

Patent

Japanese 1

ENT ENTONIATION:			
PATENT NO.	KIND	DATE	APPLICATION NO.

JP 08337583

19960412

PRIORITY APPLN. INFO.: A 19950413

OTHER SOURCE(S): MARPAT 126:157495 For diagram(s), see printed CA Issue.

A 19961224

The title compds. I [ring A, B = homocyclic ring, AB heterocyclic ring; at least one of rings A and B is a heterocyclic ring; Z = heterocyclic ring, etc.; R = H, hydrocarbon; one of X and Y is NR1 or O, the other is CO or CS; or one of X and Y is N, the other is CR2; R1 = H, hydrocarbon; R2 = H, halo, etc.; n = 1 - 4], useful as tachykinin antagonists (no data), are prepared For example, 7,8-dihydro-7-methyl-5-(4methylphenyl)-8-oxo-N-(2- pyridylmethyl)-6-pyrido[3.4b]pyridinecarboxamide was prepared

IT 168542-26-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT

(Reactant or reagent)

(preparation of pyridopyridine derivs. as

tachykinin antagonists) 168542-26-5 CAPLUS RN

Glycine, N-methyl-N-[2-(2-thienylcarbonyl)benzovll-. ethyl ester (9CI)

(CA INDEX NAME)

L6 ANSWER 38 OF 44 CAPLUS COPYRIGHT 2007 ACS on STN 1996:474202 CAPLUS <u>Full-text</u> ACCESSION NUMBER:

DOCUMENT NUMBER:

TITLE:

Schiff base derived

thiophenealdehyde:

inhibition activity

AUTHOR(S):

Chuanjun; Xie, Yuyuan CORPORATE SOURCE: Academia Sinica.

SOURCE:

Inorganic and

26(7), 1135-1147

PUBLISHER:

DOCUMENT TYPE:

LANGUAGE:

125:211155

Lanthanide(III) complexes with a

from 4-aminohippuric acid and 2-

synthesis and mouse sperm

Shen, Xu; Li, Quan; Yang,

Shanghai Institute Materia Medica,

Shanghai, 200031, Peop. Rep. China Synthesis and Reactivity in

Metal-Organic Chemistry (1996).

CODEN: SRIMCN; ISSN: 0094-5714

Dekker Journal English

Twelve lanthanide(III) complexes, Ln(TBG)3 nH20 [where AB Ln = La, Ce, Pr, Sm, Eu, Gd, Tb, Dy, Ho, Er, Yb, n = 3; Ln = Nd, n = 4; HTBG = 4-(2'-

thiophenaldiminobenzoyl)glycine], were synthesized and characterized by elemental analyses, magnetic moment and molar conductance measurements, IR, UV and 1H NMR spectra as well as TGA and DSC methods. Preliminary pharmacol. tests showed mouse-sperm inhibition

activity for the Sm complex.

IT 181184-83-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT

(Reactant or reagent)

(preparation and reaction with rare earth salts)

181184-83-8 CAPLUS RN

Glycine, N-[4-[(2-thienylmethylene)amino]benzoyl]-, CN

monosodium salt (9CI) (CA INDEX NAME)

Na

RN 181184-82-7 CAPLUS
CN Glycine, N-[4-[(2-thienylmethylene)amino]benzoyl](9CI) (CA INDEX NAME)

L6 ANSWER 39 OF 44 CAPLUS COPYRIGHT 2007 ACS on STN ACCESSION NUMBER: 1995:994147 CAPLUS <u>Full-text</u> DOCUMENT NUMBER: 124:55567

TITLE:

benzene-derivative

INVENTOR(S):
Mark Francis; Harris,

Walsh, Roger John

Smith, Christopher;

PATENT ASSIGNEE(S): SOURCE:

DOCUMENT TYPE: LANGUAGE:

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

Preparation of substituted

endothelin inhibitors Astles, Peter Charles; Harper,

Neil Victor; McLay, Ian McFarlane;

Aitchison; Lewis, Richard Alan;

Porter, Barry; McCarthy, Clive Rhone-Poulenc Rorer Ltd., UK PCT Int. Appl., 197 pp.

CODEN: PIXXD2

Patent English

 $\bar{1}$

PATENT NO.	KIND	DATE	APPLICATION NO.
wo 9513262 19941114	A1	19950518	WO 1994-GB2499
W: AM, AT, AU, DE, DK, ES, FI, GB,	BB, BG	, BR, BY, (CA, CH, CN, CZ,
LV, MD, MG, MN, MW,			KZ, LK, LT, LU,
TJ, TT, UA, US, UZ, VN	•		SD, SE, SI, SK,
RW: KE, MW, SD, GB, GR, IE, IT, LU,			
MC, NL, PT, GN, ML, MR, NE, SN, TD, TG	SE, BF	, BJ, CF, (CG, CI, CM, GA,
CA 2176363 19941114	A1	19950518	CA 1994-2176363
AU 9481498 19941114	Α	19950529	AU 1994-81498
ZA 9409035 19941114	Α	19960514	ZA 1994-9035
EP 728128 19941114	A1	19960828	EP 1995-900842
EP 728128 R: AT, BE, CH,		19980916 , ES, FR, (GB. GR. IE. IT.
LI, LU, MC, NL, PT, SE JP 09505043			JP 1995-513704
19941114			

981015 AT 1995-900842
990116 ES 1995-900842
010403 US 1997-640922
GB 1993-23382
GB 1994-3363
400 4 40
GB 1994-10750
1004 == 2400
WO 1994-GB2499
I - F F F 6 7
1:55567
)

$$R_{p}^{1}$$
 R_{q}^{2}
 R_{q}^{2}
 R_{q}^{2}

The title compds. [I; R1 = H, (un)substituted hydroxyalkyl, carboxyalkyl, CN, NO2, (un)substituted alkoxy, etc.; R2 = arylalkoxy, heteroarylalkoxy, arylalkylthio, etc.; R3 = HO, alkoxy, aryloxy, etc.; R4 = (un)substituted alkyl or alkenyl; R5 = alkyl, alkenyl, halogen; m-p = 0, 1], useful as endothelin inhibitors (no data) for the treatment of diseases modulated by inhibiting endothelin (no data), are prepared Thus, Me 2-benzyloxy-4-(4-chlorobenzyloxyl)benzoate was saponified, producing 2-benzyloxy-4-(4-chlorobenzyloxy)benzoic acid, m.p. 150-152°, in 44% yield.

170282-28-7P 170282-29-8P 170282-31-2P 170282-35-6P 170282-38-9P 170282-39-0P 170282-66-3P 170282-68-5P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

RN 170282-29-8 CAPLUS
CN Glycine, N-[4-(3-thienylmethoxy)-2-[[2-(trimethylsilyl)ethoxy]methoxy]benz
oyl]-, methyl ester (9CI) (CA INDEX NAME)

RN 170282-31-2 CAPLUS CN β -Alanine, N-[2-hydroxy-4-(3-thienylmethoxy)benzoyl]-,

methyl ester
 (9CI) (CA INDEX NAME)

Absolute stereochemistry.

Absolute stereochemistry.

RN 170282-68-5 CAPLUS
CN L-Serine, N-[4-(3-thienylmethoxy)-2-[[2[(trimethylsilyl)oxy]ethoxy]methox
y]benzoyl]-, methyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 170280-86-1 CAPLUS CN Benzenebutanoic acid, γ -[2-[[(carboxymethyl)amino]carbonyl]-5-(3-thienylmethoxy)phenoxy]-2-methyl- (9CI) (CA INDEX NAME)

RN 170281-31-9 CAPLUS

Absolute stereochemistry.

RN 170281-32-0 CAPLUS

CN Benzenebutanoic acid, γ -[2-[[(1-carboxy-2-phenylethyl)amino]carbonyl]-5-(3-thienylmethoxy)phenoxy]-2-methyl-, α -ethyl ester, [R-(R*,S*)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 170281-34-2 CAPLUS
CN Benzenebutanoic acid, γ-[2-[[(1-carboxyethenyl)amino]carbonyl]-5-(3-thienylmethoxy)phenoxy]-2-methyl- (9CI) (CA INDEX NAME)

RN 170281-70-6 CAPLUS
CN Benzenebutanoic acid, γ-[2-[[(1-carboxy-2-phenylethyl)amino]carbonyl]-5-(3-thienylmethoxy)phenoxy]-2-methyl-,
 [S-(R*,S*)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 170281-71-7 CAPLUS CN Benzenebutanoic acid, γ -[2-[[(1-carboxy-2-phenylethyl)amino]carbonyl]-5-(3-thienylmethoxy)phenoxy]-2-methyl-, [R-(R*,S*)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 170281-72-8 CAPLUS
CN Benzenebutanoic acid, γ-[2-[[(1-carboxy-2-phenylethyl)amino]carbonyl]-5-(3-thienylmethoxy)phenoxyl-2-methyl-

thienylmethoxy)phenoxy]-2-methyl-, [S-(R*,R*)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 170283-23-5 CAPLUS

CN Benzenebutanoic acid, γ -[2-[[(1-carboxy-2-

phenylethyl)amino]carbonyl]-5-(3thienylmethoxy)phenoxy]-2-methyl-,

 α -ethyl ester, [S-(R*,R*)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L6 ANSWER 40 OF 44 CAPLUS COPYRIGHT 2007 ACS on STN ACCESSION NUMBER: 1995:835514 CAPLUS Full-text

DOCUMENT NUMBER: 123:256684

TITLE: Preparation of

pyridopyridinecarboxamides,

thienopyridinecarboxamides, and

related compounds as

tachykinin antagonists and

inhibitors of plasma

extravasation.

INVENTOR(S): Natsugari, Hideaki; Ishimaru,

Takenori; Doi, Takayuki
PATENT ASSIGNEE(S): Takeda Chemical Industries, Ltd.,

Japan SOURCE: Eur. Pat. Appl., 72 pp.

CODEN: EPXXDW

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO. DATE	KIND	DATE	APPLICATION NO.
EP 652218 19941108	A1	19950510	EP 1994-117576
EP 652218	R 1	20010711	
R: AT, BE, CH,			GB. GR. TF. TT.
LI, LU, NL, PT, SE	,	,,	
NO 9404252	Α	19950511	NO 1994-4252
19941108			
AT 203024	T	20010715	AT 1994-117576
19941108	. 1	10050544	4004
CA 2135440 19941109	A1	19950511	CA 1994-2135440
FI 9405281	Α	10050511	FT 1004 F201
19941109	A	19950511	FI 1994-5281
AU 9477738	Α	19950518	AU 1994-77738
19941109	^	T33303T0	AU 1994-77736
AU 678295	в2	19970522	
BR 9404403	Ā	19950718	BR 1994-4403
19941109			DK 1331 1103
JP 08067678	Α	19960312	JP 1994-274699
19941109			
RU 2135471	C1	19990827	RU 1994-40174
19941109	_		
HU 68810	A2	19950519	ни 1994-3230
19941110	_	1005000	
CN 1107476 19941110	Α	19950830	CN 1994-113866
CN 1052004	В	20000502	
US 5585385	B A	20000503 19961217	uc 1004 220762
19941110	A	19901217	us 1994-338762
BR 9501976	Α	19960430	BR 1995-1976
19950509	~	T3300430	DK 1333-1370
PRIORITY APPLN. INFO.:			JP 1993-281178

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Α
   19931110
                                             JP 1993-337488
Α
   19931228
                                             JP 1994-33637
   19940303
                                             JP 1994-138551
   19940621
Α
OTHER SOURCE(S):
                         CASREACT 123:256684; MARPAT
123:256684
     For diagram(s), see printed CA Issue.
GI
     Title compds. [I; ring A, ring B = (substituted) homo-
AB
     or heterocyclyl, \geq 1 of them = (substituted)
     heterocyclýl; ring C = (substituted) benzene ring; R =
     H, (substituted) hydrocarbyl; 1 of \hat{x}, \hat{y} = NR1, 0; the
     other = CO, CS; or 1 of them = N: and the other =
      :CR2; R1 = H, (substituted) hydrocarbyl; R2 = H, halo,
      (substituted) hydrocarbyl, amino, OH; n = 1, 2], were
     prepared Thus, 5-(4-fluorophenyl)-7,8-dihydro-7-
     methyl- 8-oxo-6-pyrido[3,4-b]pyridinecarboxylic acid
     (preparation given) was refluxed with SOC12 in benzene
     and ther residue in THF was refluxed with N-[3,5-
     bis(trifluoromethyl)benzyl]methylamine and Et3N to
     give N-[3,5-bis(trifluoromethyl)benzyl]-5-(4-
     fluorophenyl)-7,8-dihydro-N,7-di methyl-8-oxo-6-
     pyrido[3,4-b]pyridinecarboxamide (II). II inhibited
     substance P binding to IM-9 human lymphoblasts with
     IC50 = 0.08 nm. Tablets containing II were prepared
     168542-26-5P
IT
     RL: RCT (Reactant); SPN (Synthetic preparation); PREP
(Preparation); RACT
     (Reactant or reagent)
        (preparation of pyridopyridinecarboxamides.
thienopyridinecarboxamides, and
        related compds. as tachykinin antagonists and
inhibitors of plasma
        extravasation)
RN
     168542-26-5 CAPLUS
     Glycine, N-methyl-N-[2-(2-thienylcarbonyl)benzoyl]-,
ethyl ester (9CI)
     (CA INDEX NAME)
```

L6 ANSWER 41 OF 44 CAPLUS COPYRIGHT 2007 ACS on STN ACCESSION NUMBER: 1995:786283 CAPLUS <u>Full-text</u>

DOCUMENT NUMBER: 124:56589

TITLE:

formation and its

AUTHOR(S): Weichsel.

CORPORATE SOURCE:

85737, USA

SOURCE:

36(35), 6193-6

CODEN: TELEAY; ISSN: 0040-4039

Aleksandra S.; Lebl, Michal

Tetrahedron Letters (1995),

Selectide Corp., Tucson, AZ,

Polymer-supported Mitsunobu ether

Krchnak, Viktor; Flegelova, Zuzka;

use in combinatorial chemistry

PUBLISHER: Elsevier DOCUMENT TYPE: Journal English

Arom. hydroxy acids, Ac-Tyr-OH and N-(4-hydroxybenzoyl)glycine, were attached to a polymeric solid support and the phenolic hydroxy groups reacted with a variety of primary and secondary alcs. under the conditions of the Mitsunobu reaction (triphenylphosphine and di-Et azodicarboxylate) in THF. In most cases the reaction provided a nearly quant. yield of alkyl aryl ethers, as determined after cleaving the product from the resin. To demonstrate that the polymer-supported Mitsunobu reaction is useful for combinatorial library synthesis, the authors synthesized a number of model compds. and a simple three randomization step library composed of 4,200 different compds.

IT <u>171814-11-2P</u>

RL: SPN (Synthetic preparation); PREP (Preparation)

(polymer-supported Mitsunobu etherification and use

RN 171814-11-2 CAPLUS

CN Glycine, N-[4-(2-thienylmethoxy)benzoyl]- (9CI) (CA

INDEX NAME)

L6 ANSWER 42 OF 44 CAPLUS COPYRIGHT 2007 ACS ON STN

ACCESSION NUMBER: 1990:76603 CAPLUS Full-text

DOCUMENT NUMBER: 112:76603

TITLE: Preparation of acylphenol

derivatives as analgesics,

antiinflammatories, and

antipyretics

INVENTOR(S): Kise, Masahiro; Yoshimoto,

Yoshihiko; Fujisawa,

Hiroshi; Sasaki, Yasuo; Yasufuku,

Shoji

PATENT ASSIGNEE(S):

SOURCE:

Nippon Shinyaku Co., Ltd., Japan

Eur. Pat. Appl., 29 pp.

CODEN: EPXXDW

DOCUMENT TYPE:

LANGUAGE:

Patent English

1

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO. DATE	KIND	DATE	APPLICATION NO.
EP 331195 19890303	A2	19890906	EP 1989-103780
EP 331195	А3	19901128	
R: DE, IT, NL, GB 2216515 19890127	SE A	19891011	GB 1989-1863
CN 1044651	Α	19900815	CN 1989-100665
19890131 ES 2013035	А6	19900416	ES 1989-623
19890221 US 4927835	Α	19900522	us 1989-317601
19890301 FR 2628105	A1	19890908	FR 1989-2697

19890302 BE 1002868 Α4 19910709 BE 1989-215 19890302 JP 03215456 Α 19910920 JP 1989-50297 19890302 HU 54617 A2 19910328 HU 1989-1035 19890303 PRIORITY APPLN. INFO.: JP 1988-51977 19880304 OTHER SOURCE(S): CASREACT 112:76603: MARPAT 112:76603 GI

$$R^2$$
 CH_{2NR}_{3R4}
 I
 A
 R^6
 Q

Title compds. I [R1 = cycloalkyl, (substituted) aryl, Q (A = O, S, NR5; R5 = H, alkyl; R6 = H, alkyl, halo); R2 = alkyl, cycloalkyl; R3, R4 = H, (substituted) alkyl, alkenyl, alkynyl, cycloalkyl; R3R4N = cyclic amino] are prepared A mixture of 3-(1,1-dimethylethyl)-4-hydroxyphenyl 2-thienyl ketone, N-methylethanolamine, 35% aqueous HCHO, AcOH and EtOH was refluxed to give I [R1 = 2-thienyl, R2 = Me3C, R3 = HO(CH2)2, R4 = Me]. The latter showed an ED3O of 9.8 mg/kg for inhibiting carrageenin-induced edema in rats, vs. 0.8 mg for indomethacin.

IT 124979-01-7P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological

study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use);

BIOL (Biological study); PREP (Preparation); USES (Uses)

(preparation of, as analgesic, antiinflammatory, and antipyretic)

RN 124979-01-7 CAPLUS

CN Glycine, N-[[3-(1,1-dimethylethyl)-2-hydroxy-5-(2-thienylcarbonyl)phenyl]methyl]-N-methyl- (9CI) (CA INDEX NAME)

L6 ANSWER 43 OF 44 CAPLUS COPYRIGHT 2007 ACS on STN 1982:7043 CAPLUS Full-text ACCESSION NUMBER: **DOCUMENT NUMBER:** 96:7043 TITLE: Synthesis and some physicochemical properties of diethyl p-aminobenzoyl-L-glutamate azomethines AUTHOR(S): Nikolaeva, C. L.; Borukhova, I. N.; Andreeva, N. A.; Pushkareva, Z. V. **CORPORATE SOURCE:** USSR SOURCE: Deposited Doc. (1980), SPSTL 556khp-D80, 10 pp. Avail.: SPSTL DOCUMENT TYPE: Report LANGUAGE: Russian AB Title azomethines 4-[RCH:N]C6H4CO-Glu(OEt)-OEt [R = 2naphthyl, 2-thienyl, 2-furyl, 5-nitro-2-furyl, 1,2,3,4-tetrahydro-6-hydroxy-2,4-dioxo-5- pyrimidinyl, 1,2,3,4-tetrahydro-6-hydroxy-4-oxo-2-thioxo-5pyrimidinyl, 1,2,3,4-tetrahydro-2,4-dioxo-6pyrimidinyl, 2-HOC6H4] were prepared by condensation of 4-H2NC6H4CO-Glu(OEt)-OEt with aldehydes. azomethines possessed dihydrofolate reductase inhibiting activities, and their polarog, reduction potentials were close to that of folic acid. 80064-81-9P IT RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation and dihydrofolate reductase inhibiting activity of)
RN 80064-81-9 CAPLUS
CN L-Glutamic acid, N-[4-[(2-thienylmethylene)amino]benzoyl]-, diethyl ester
(9CI) (CA INDEX NAME)

Absolute stereochemistry. Double bond geometry unknown.

L6 ANSWER 44 OF 44 CAPLUS COPYRIGHT 2007 ACS on STN ACCESSION NUMBER: 1968:487446 CAPLUS Full-text

DOCUMENT NUMBER: 69:87446

Synthesis of N-[p-[(2-naphthy]-TITLE:

and

N-[p-[(2-

thienylmethyl)amino]benzoyl]-DL-glutamic acid

AUTHOR(S): Gurina, S. L.; Batulina, R. Kh.;

Alekseeva, L. V.;

Pushkareva, Z. V.

CORPORATE SOURCE: Ural. Politekh. Inst. im. Kirova.

Sverdlovsk, USSR

SOURCE:

Soedinenii (1968), (3),

Khimiya Geterotsiklicheskikh

431-2

CODEN: KGSSAQ; ISSN: 0132-6244

DOCUMENT TYPE: Journal LANGUAGE: Russian

For diagram(s), see printed CA Issue. GI

A mixt. of 1.1 g. 2-(bromomethyl)naphthalene, 1.65 g. AB di-Et N-(p-aminobenzoyl)-DL-glutamate (I), 0.5 g. NaHCO3, a few crystals of NaI, and 15 ml. EtOH was refluxed 15 hrs. on a water bath and filtered, the solvent evaporated, the residue treated with 10 ml. EtOH and 1.5 ml. 30% NaOH, and the mixture kept 3 hrs. at room temperature and neutralized with HCl to give a gummy product, which was washed with water, dried over P205, powdered, and purified by dissolving in aqueous NaHCO3 and precipitating with HCl to give 0.72 g. N-[p-(2-naphthylmethyl)amino]benzoyl]-DL-glutamic acid, m. $93-7^{\circ}$. A mixture of $1.3\overline{2}$ g. 2-

(chloromethyl)thiophene, 3.2 g. I, 1 g. Et3N, and 25 ml. anhydrous C6H6 was heated for 5 hrs. and filtered,

the filtrate evaporated in vacuo, and the residue dissolved in 20 ml. EtOH with 2 ml. 40% NaOH and worked up as above to give 1.85 g. N-[p-[(2-thienylmethyl)amino]benzoyl]- DL-glutamic acid, m. 70-95°.

IT 19641-89-5P

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)

19641-89-5 CAPLUS RN

Glutamic acid, N-[p-(2-thenylamino)benzoyl]-, DL-CN (8CI) (CA INDEX NAME)

=> log y COST IN U.S. DOLLARS TOTAL

SINCE FILE

ENTRY

SESSION

FULL ESTIMATED COST 233.29

448.05

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS) SINCE FILE TOTAL

ENTRY

SESSION CA SUBSCRIBER PRICE 34.32 -34.32

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NEWS
        JAN 08
                CHEMLIST enhanced with New Zealand Inventory of Chemicals
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NEWS
     3 JAN 16
NEWS 4
        JAN 16
                IPC version 2007.01 thesaurus available on STN
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                CA/CAplus updated with revised CAS roles
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                CA/CAplus enhanced with patent applications from India
NEWS 8 JAN 29
                PHAR reloaded with new search and display fields
        JAN 29
NEWS 9
                CAS Registry Number crossover limit increased to 300,000 in
                 multiple databases
NEWS 10
        FEB 15
                PATDPASPC enhanced with Drug Approval numbers
NEWS 11 FEB 15
                RUSSIAPAT enhanced with pre-1994 records
NEWS 12 FEB 23
                KOREAPAT enhanced with IPC 8 features and functionality
NEWS 13 FEB 26
                MEDLINE reloaded with enhancements
NEWS 14 FEB 26 EMBASE enhanced with Clinical Trial Number field
                TOXCENTER enhanced with reloaded MEDLINE
NEWS 15 FEB 26
                IFICDB/IFIPAT/IFIUDB reloaded with enhancements
NEWS 16 FEB 26
                CAS Registry Number crossover limit increased from 10,000
NEWS 17 FEB 26
                 to 300,000 in multiple databases
NEWS 18 MAR 15
                WPIDS/WPIX enhanced with new FRAGHITSTR display format
NEWS 19
        MAR 16
                CASREACT coverage extended
NEWS 20 MAR 20 MARPAT now updated daily
NEWS 21 MAR 22 LWPI reloaded
NEWS 22 MAR 30 RDISCLOSURE reloaded with enhancements
NEWS 23 APR 02 JICST-EPLUS removed from database clusters and STN
NEWS 24 APR 30 GENBANK reloaded and enhanced with Genome Project ID field
NEWS 25 APR 30
                CHEMCATS enhanced with 1.2 million new records
NEWS 26 APR 30
                CA/CAplus enhanced with 1870-1889 U.S. patent records
NEWS 27 APR 30
                INPADOC replaced by INPADOCDB on STN
NEWS 28 MAY 01
                New CAS web site launched
NEWS 29 MAY 08
                CA/CAplus Indian patent publication number format defined
NEWS 30 MAY 14
                RDISCLOSURE on STN Easy enhanced with new search and display
                fields
NEWS 31 MAY 21
                BIOSIS reloaded and enhanced with archival data
NEWS 32
        MAY 21
                TOXCENTER enhanced with BIOSIS reload
NEWS 33
        MAY 21
                CA/CAplus enhanced with additional kind codes for German
                patents
NEWS 34
        MAY 22
                CA/CAplus enhanced with IPC reclassification in Japanese
                patents
NEWS EXPRESS NOVEMBER 10 CURRENT WINDOWS VERSION IS V8.01c, CURRENT
             MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP)
             AND CURRENT DISCOVER FILE IS DATED 25 SEPTEMBER 2006.
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FULL ESTIMATED COST

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STRUCTURE FILE UPDATES: 30 MAY 2007 HIGHEST RN 936211-93-7 DICTIONARY FILE UPDATES: 30 MAY 2007 HIGHEST RN 936211-93-7

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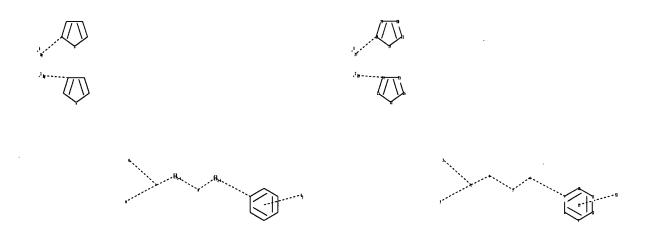
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chain nodes :
1  2  3  4  5  6  27  28  32
ring nodes :
7  8  9  10  11  12  17  18  19  20  21  22  23  24  25  26
chain bonds :
1-2  1-3  1-4  4-5  5-6  6-9  18-27  24-28
ring bonds :
7-8  7-12  8-9  9-10  10-11  11-12  17-18  17-21  18-19  19-20  20-21  22-23  22-26
23-24  24-25  25-26
exact/norm bonds :
1-2  1-3  1-4  4-5  5-6  6-9  17-18  17-21  18-19  18-27  19-20  20-21  22-23
22-26  23-24  24-25  24-28  25-26
normalized bonds :
7-8  7-12  8-9  9-10  10-11  11-12
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G1:[*1],[*2]

Match level :
1:CLASS 2:CLASS 3:CLASS 4:CLASS 5:CLASS 6:CLASS 7:Atom 8:Atom 9:Atom
10:Atom 11:Atom 12:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom 22:Atom
23:Atom 24:Atom 25:Atom 26:Atom 27:Atom 28:Atom 32:CLASS 33:Atom

L1 STRUCTURE UPLOADED

=> d · L1 HAS NO ANSWERS L1 STR * STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

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=> s l1 SAMPLE SEARCH INITIATED 08:14:16 FILE 'REGISTRY' SAMPLE SCREEN SEARCH COMPLETED -4556 TO ITERATE

0 ANSWERS 43.9% PROCESSED 2000 ITERATIONS

INCOMPLETE SEARCH (SYSTEM LIMIT EXCEEDED)

SEARCH TIME: 00.00.01

FULL FILE PROJECTIONS: ONLINE **COMPLETE** BATCH **COMPLETE** PROJECTED ITERATIONS: 87073 TO 95167 PROJECTED ANSWERS: 0 TO 0

0 SEA SSS SAM L1 1.2

=> s l1 full FULL SEARCH INITIATED 08:14:20 FILE 'REGISTRY'

FULL SCREEN SEARCH COMPLETED - 90406 TO ITERATE

5 ANSWERS 100.0% PROCESSED 90406 ITERATIONS

SEARCH TIME: 00.00.05

L3 5 SEA SSS FUL L1

=> s 13 and caplus/lc 54326390 CAPLUS/LC

5 L3 AND CAPLUS/LC

=> fil caplus

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=> s 14

=> d ibib abs hitstr 1-4

L5 ANSWER 1 OF 4 CAPLUS COPYRIGHT 2007 ACS ON STN ACCESSION NUMBER: 2004:587882 CAPLUS DOCUMENT NUMBER: 141:140439

Preparation of substituted 2-phenylbenzimidazoles as TITLE:

antidiabetics

antidiabetica Streicher, Ruediger; Mack, Juergen; Walter, Rainer; Konetzki, Ingo: Trieselmann, Thomas; Austel, Volkhard Boehringer Ingelheim Pharma GmbH & Co. KG, Germany Ger. Offen., 63 pp. CODEN: GMXXBX INVENTOR (S): PATENT ASSIGNEE(S):

DOCUMENT TYPE: LANGUAGE:

FAMILY ACC. NUM. COUNT: PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE 20040722 20030109 DE 10300398 CA 2512813 DE 2003-10300398 CA 2003-2512813 A1 A1 20040729 WO 2004062663 20040729 WO 2003-EP14760 20031223 1062663
AE, AG, AL,
CN, CO, CR,
GE, GH, GM,
LK, LR, LS,
NZ, OM, PG,
TM, TN, TR,
EBW, GH, GM,
BY, KG, KZ,
ES, FI, FR,
TR, BF, BJ, A1 20040729 W0 2003-EP14760 20031223
AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, TL, LU, LV, MA, MD, MG, MK, MN, MM, MK, MZ, NI, NO, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TT, TZ, UA, UG, US, UZ, VC, VN, VU, ZA, ZM, ZW KE, LS, MM, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, GB, GR, HU, IE, IT, LU, MC, NL, PT, RO, SE, SI, SK, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD,

TG

AU 2003292263 A1 20040810
US 2005014810 A1 20050120
US 7151114 B2 20061219
EP 1985517 A1 20051019
R: AT, BE, CH, DE, DK, ES, FR,
JP 2005515857 T 20066608

PRIORITY APPLN. INFO.: AU 2003-292263 US 2003-744830 20031223 20031223 EP 2003-767827 GB, GR, IT, LI, LU, NL, CY, AL, TR, BG, C2, EE, JP 2004-566023 DE 2003-10300398 20031223 SE, MC, PT, HU, SK 20031223 20030109 A

US 2003-499522P P 20030902

WO 2003-EP14760 W 20031223

OTHER SOURCE(S): MARPAT 141:140439

STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Benzimidazoles I [Rl = substituted Ph; R2 = (un)substituted aryl, heteroaryl, CONH2, NO2; R3 = H; R2R3 = (un)substituted N:CNN:CH; R4-R6 = H, halogen, alkyl, alkoxy, haloalkyl, haloalkoxy] were prepared for use

glucagon receptor antagonists in the treatment of diabetes. Thus, the benzimidazole II was prepared by amidating 4,3-F(O2N)C6H3CO2H with 1-aminothylcyclohexene, amination with (+)-dehydroabietylamine,

the nitro group and the cyclohexene ring, and cyclization with

ANSWER 1 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)

ANSWER 1 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN (Continued)
3-OCHC6H4OCH2CO2H.
727399-46-4P 727399-56-6P 727399-64-6P
RL: SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(preparation of substituted 2-phenylbenzimidazoles as antidiabetics)
727399-46-4 CAPLUS

727399-46-4 CAPLUS β -Alanine, N-[3-[1-[[[1R,4as,10aR]-1,2,3,4,4a,9,10,10a-octahydro-1,4a-dimethyl-7-(1-methylethyl)-1-phenanthrenyl]methyl]-5-[2-thienyl)-1H-benzimidazol-2-yl]benzoyl]- {9CI} (CA INDEX NAME)

Absolute stereochemistry.

727399-56-6 CAPLUS
β-Alanine, N-{3-{5-(5-chloro-2-thienyl)-1-{{(1R,4as,10aR)-1,2,3,4,4a,9,10,10a-octahydro-1,4a-dimethyl-7-(1-methylethyl)-1-phenanthrenyl]methyl}-1H-benzimidazol-2-yl}benzoyl]- (9CI) (CA NAME) (CA INDEX

Absolute stereochemistry.

727399-64-6 CAPLUS $\begin{array}{lll} P-Alanine, & P-$

Absolute stereochemistry.

L5 ANSWER 2 OF 4 CAPLUS COPYRIGHT 2007 ACS ON STN ACCESSION NUMBER: 2004:244899 CAPLUS COUMENT NUMBER: 140:423617

DOCUMENT NUMBER:

AUTHOR (S):

140:423617
Fully Automated Polymer-Assisted Synthesis of
1,5-Biaryl Pyrazoles
Vickerstaffe, Emma; Warrington, Brian H.; Ladlow,
Mark; Ley, Steven V.
GlaxoSmithKline Cambridge Technology Centre,
University Chemical Laboratory, Cambridge, CB2 1EW, CORPORATE SOURCE:

UK

UNIVERSITY Chemical Laboratory, Cambridge, CB2 1EW,

SOURCE:

Journal of Combinatorial Chemistry (2004), 6(3),
332-339

CODEN: JCCHFF; ISSN: 1520-4766

PUBLISHER:

American Chemical Society

DOCUMENT TYPE:

Journal

LANGUAGE:

CASREACT 140:423617

AB The polymer-assisted solution-phase (PASF) synthesis of a 192-member 2-D
array of 1,5-diarylpyracyles is reported. The synthesis was performed in
a fully automated manner using a multiprobe top-filtration robot and
incorporates a catch and release step to afford library compds. directly
in high yield and purity.

G92735-44-7P

RL: CPN (Combinatorial preparation); CMBI (Combinatorial study); PREP
(Preparation)

(fully automated polymer-assisted synthesis of 1.5-diarylmer-assisted Synthesis o

(Preparation)
(fully automated polymer-assisted synthesis of 1,5-diarylpyrazoles)
RN 692735-44-7 CAPLUS
CN Glycine,
N-{4-{5-{2-c-thienyl}}-3-{trifluoromethyl}-1H-pyrazol-1-yl}benzoyl}, ethyl ester (9CI) (CA INDEX NAME)

REFERENCE COUNT: THIS

THERE ARE 30 CITED REFERENCES AVAILABLE FOR

RECORD. ALL CITATIONS AVAILABLE IN THE RE

FORMAT

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L5 ANSWER 3 OF 4 CAPLUS COPYRIGHT 2007 ACS ON STN
ACCESSION NUMBER: 2003:591190 CAPLUS
DOCUMENT NUMBER: 139:149756
                                                                                                           139:149736
Preparation of N-(benzyl)aminoalkylcarboxylates,
phosphinates, phosphonates and tetrazoles as EDG
receptor agonists
Doherty, George A.: Li, Zhen; Hale, Jeffrey J.:
     INVENTOR (5):
                                                                                                          Sander G.
Merck & Co., Inc., USA
PCT Int. Appl., 152 pp.
CODEN: PIXXD2
     PATENT ASSIGNEE(S):
      SOURCE:
     DOCUMENT TYPE:
                                                                                                           English
      FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:
                         PATENT NO.
                                                                                                           KIND
                                                                                                                                      DATE
                                                                                                                                                                                       APPLICATION NO.
                                                                                                                                                                                                                                                                                    DATE
                                                                                                                                     20030731
                         WO 2003062248
WO 2003062248
                                                                                                             A2
A3
                                                                                                                                                                                      WO 2003-US1059
                                                                                                                                                                                                                                                                                    20030114
   WO 2003062248 A2 20030731 WO 2003-USISOS9 20030124

W: AE, AG, AM, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GH, HR, HU, ID, IL, IN, IS, JP, KE, KG, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, NA, MM, MK, MX, MX, NO, NZ, OM, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW

RW: GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PT, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GG, GW, ML, MR, NE, SN, TD, TG

CA 2472713 A1 20030731 CA 2003-2472713 20030114

JP 2005527494 T 20050915 PP 2003-762110 20030114

PP 1575964 A2 20050921 PP 2003-702110 20030114

R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, C2, EE, HU, SK

US 2005020837 A1 20050127 US 2004-500811 20040707

PRIORITY APPLN. INFO.:
                                                                                                                                                                                       WO 2003-US1059
                                                                                                                                                                                                                                                                        W 20030114
   OTHER SOURCE(S):

MARPAT 139:149756

The present invention encompasses preparation of compds.,
A(CRIR2)nNHCHR3AF((R4)0-4]BC (Ar = Ph, naphthyl, etc.; A = CO2H,
IH-tetrazol-5-y-1, PO33R2, PO2R2, SO3M, PO(R5)OR, R5 = Cl-4 alkyl,
hydroxyCl-4alkyl, Ph, COCl-3alkoxy, CH(OH)Ph, etc.; n = 2-4; R1, R2 =
independently selected from H, halo, OH, CO2H, Cl-6 alkyl, Ph, etc.; R3 =
H, Cl-4 alkyl, etc.; R4 = CO2H, Cl-4 alkyl, sulfonylalkyl, alkoxy,
alkoxycyClopropyl, aryl, aryloxy, etc.; C = Cl-8 alkyl, Cl-8 alkyl, Cl-6 alkyl,
(un)substituted C5-16 alkenyl, (un)substituted C5-16 alkyl,
(un)substituted C5-16 alkenyl, (un)substituted C5-16 alkyl), alkoxy
avail as the pharmaceutically acceptable salts and hydrates thereof. The
compds. are useful for treating immune mediated diseases and conditions,
such as bone marrow, organ and tissue transplant rejection.
Pharmaceutical compns. and methods of use are included. Thus, reaction
of
                        3-aminopropylphosphonic acid with 4-(decyloxy)benzaldehyde in presence of Bu4NOH and sodium cyanoborohydride in MeON for 1h at 50° gave title compound, N-((4-decyloxy)benzyl)-3-aminopropylphosphonic acid. 56664-79-3P RL: BSU (Biological study, unclassified); SPN (Synthetic preparation);
    THU
   L5 ANSWER 4 OF 4
ACCESSION NUMBER: 2003:590932 CAPLUS
DOCUMENT NUMBER: 19:1149413
Selective SIPI/Edgl receptor agonists
INVENTOR(S): Doherty, George A.; Forrest, Michael J.; Hajdu,
Richard; Hale, Jeffrey J.; Li, Zhen; Mandala, Suzann
M.; Mills, Sander G.; Rosen, Hugh; Scolnick, Edward
APPLICATION NO.
 The present invention encompasses a method of treating an noregulatory abnormality in a mammalian patient in need of such treatment comprising administering to said patient a compound which is an agonist of the SIPI/Edgl receptor in an amount effective for treating said noregulatory abnormality, wherein said compound possesses a selectivity for the
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receptor over the S1PR3/Edg3 receptor, said compound administered in an

nt
effective for treating said immunoregulatory abnormality. Thus,
4-HOCGH4CHO was treated with Me(CH2)7I to give 4-Me(CH2)70C6H4CHO which
was treated with H2N(CH2)3P(0)(0H)2 to give 4Me(CH2)70C6H4CH2NH(CH2)3P(0)(0H)2 which had an EC50 for S1P1 agonism of
1.5 nM and for S1P3 agonism of 6.0 nM.
556564-79-3P
RL: PAC (Pharmacological activity); SPN (Synthetic preparation); THU

ANSWER 3 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)
(prepn. of (benzyl)aminoalkylcarboxylates, phosphinates, phosphonates
and tetrazoles as EDG receptor agonists)
569684-79-3 CAPLUS
Butanoic acid, 4-[[[4-[5-[4-phenyl-5-(trifluoromethyl)-2-thienyl]-1,2,4oxadiazol-3-yl]phenyl]methyl]amino]- (9CI) (CA INDEX NAME) но₂с- (сн₂) 3- мн- сн₂

ANSWER 4 OF 4 CAPLUS COPYRIGHT 2007 ACS on STN (Continued) (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (Uses)
(prepn. of amino functionalized organo phosphonates or organo carboxylates as S1P1/Edg1 receptor agonists)
569684-79-3 CAPLUS
Butanoic acid, 4-[[4-(5-[4-phenyl-5-(trifluoromethyl)-2-thienyl]-1,2,4-oxadiazol-3-yl]phenyl]methyl]amino]- (9CI) (CA INDEX NAME)

=> log y COST IN U.S. DOLLARS

SINCE FILE TOTAL ENTRY SESSION

FULL ESTIMATED COST

22.49 199.75

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE TOTAL ENTRY SESSION

CA SUBSCRIBER PRICE

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